
PARTS CATALOG

FOR

ONAN ELECTRIC
GENERATING PLANTS

Model

WC4-7.5S
(WC-7.5S)

D. W. ONAN & SONS INC. • MINNEAPOLIS 14, MINN.

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918-52▲

INSTRUCTIONS FOR ORDERING REPAIR PARTS

FOR PARTS OR SERVICE, CONTACT THE DEALER FROM WHOM YOU PURCHASED THIS EQUIPMENT OR REFER TO YOUR NEAREST AUTHORIZED SERVICE STATION.

TO AVOID ERRORS OR DELAY IN FILLING YOUR PARTS ORDER, PLEASE FURNISH ALL INFORMATION REQUESTED.

1. Always give the MODEL and SERIAL NO. If Unit has had a replacement Engine use the information on the Replacement Engine Nameplate, not the Original Nameplate.

2. Order only parts that have a quantity shown under the "Parts Reference Letter" that applies to your plant. These letters are listed under "Quantity Used" in the parts list. "Parts Reference Letters" are given in the Data Table.

3. Do not order by reference number or group number, use part number and description.

4. Give the part number, description and quantity needed of each item. If an old part cannot be identified, return the part prepaid to your dealer or nearest AUTHORIZED SERVICE STATION. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.

5. State definite shipping instructions.

Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

"Prices are purposely omitted from this Parts Catalog due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For Current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center."

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulta de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extranjeros etc.

Consiga los precios vigentes de su distribuidor de productos "ONAN".

IMPORTANT!

In many cases the original engine as supplied has been replaced by a complete replacement. Each replacement engine carries its own nameplate stating the correct number of the engine.

Check engine nameplate. If engine is a replacement use the correct column that corresponds with the replacement number on the engine nameplate. If no engine replacement has been supplied use "Parts Reference Letter" A

When ordering parts use the complete part number as supplied including any suffix letters in parenthesis.

| ENGINE† | PARTS REFERENCE LETTER |
|---------------------------|------------------------------|
| Original (FM)8NNN-1004 | A |
| Replacement 100A98 | B |
| Replacement 100A148 | C |
| Replacement 100A156 | D |
| Replacement 100A164 | E |
| Replacement 100A168 | F |

† = For replacement of complete engine use 100A168.

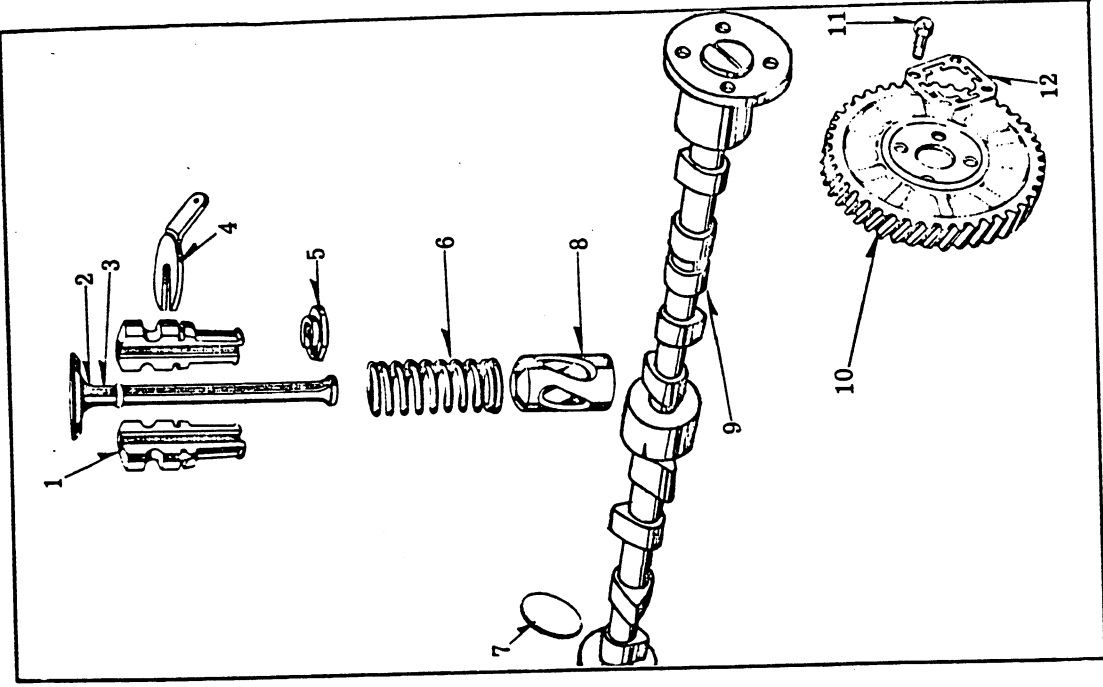


FIG.2 VALVE AND CAMSHAFT GROUP

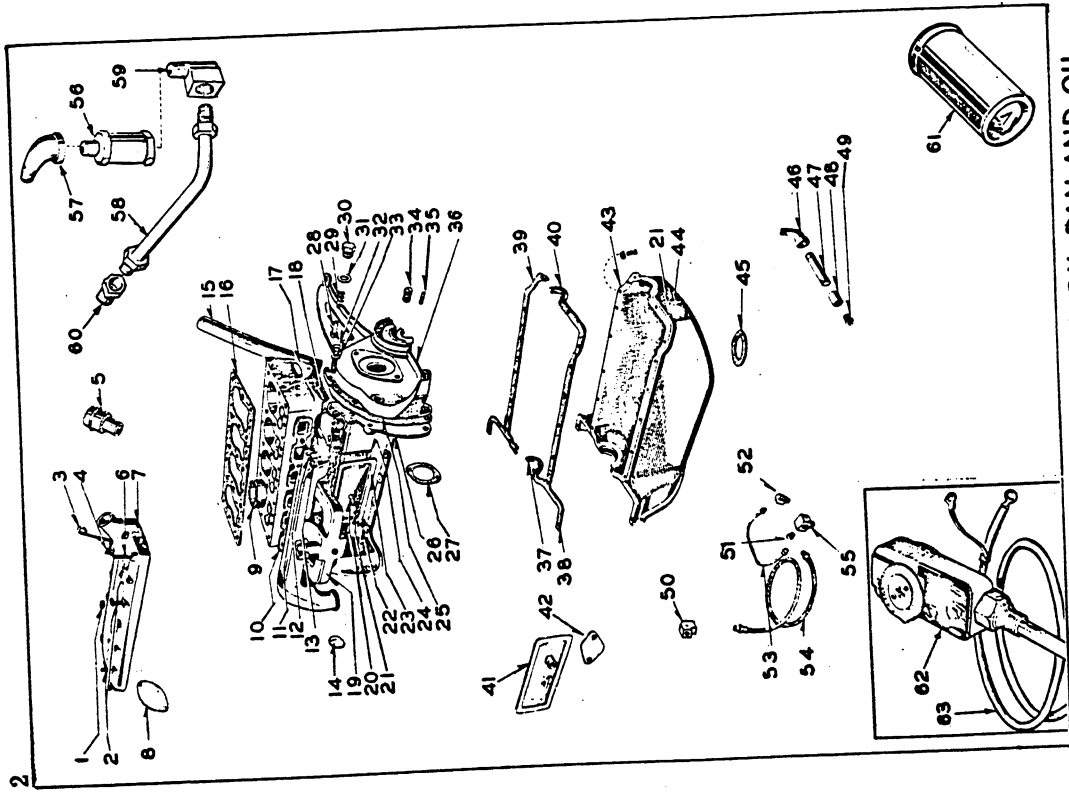


FIG.1-CYLINDER,MANIFOLD,OIL PAN AND OIL DRAIN GROUP

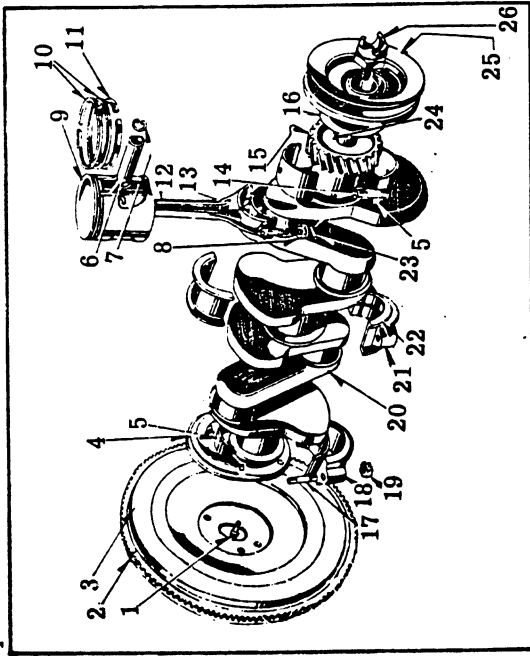


FIG.3 FLYWHEEL, CRANKSHAFT AND PISTON GROUP

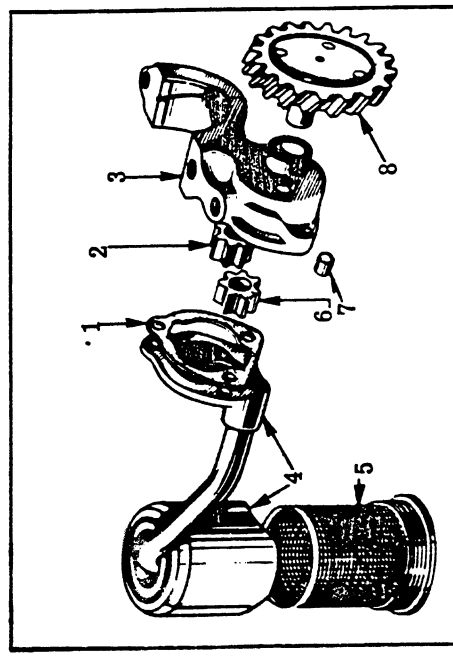


FIG.4 OIL PUMP GROUP

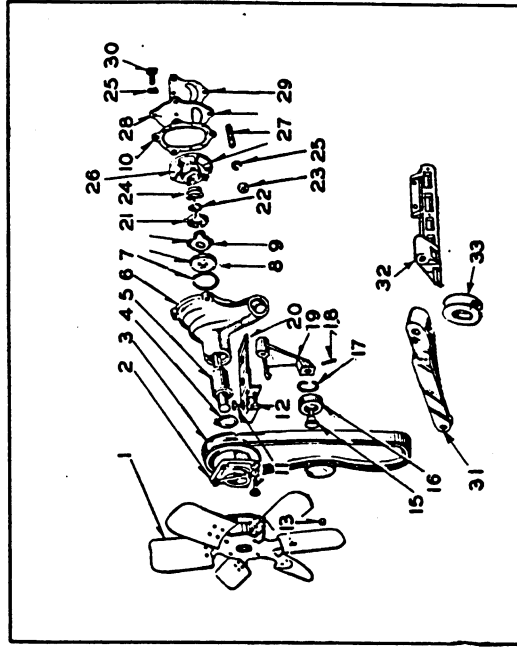


FIG.5 WATER PUMP, FAN AND IDLER GROUP

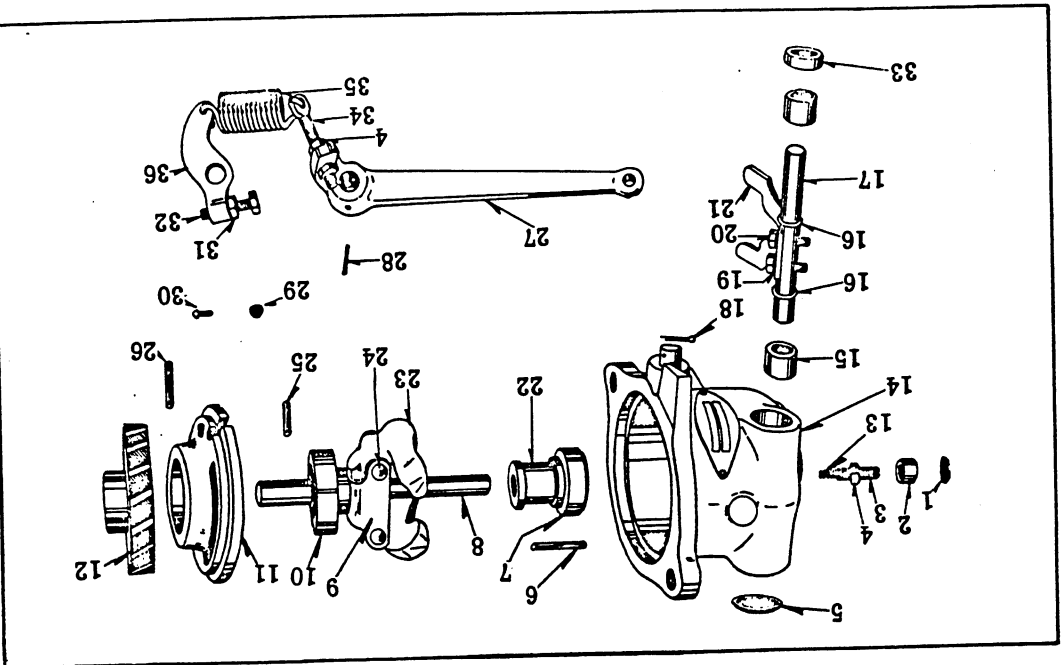


FIG. 8 GOVERNOR PARTS GROUP

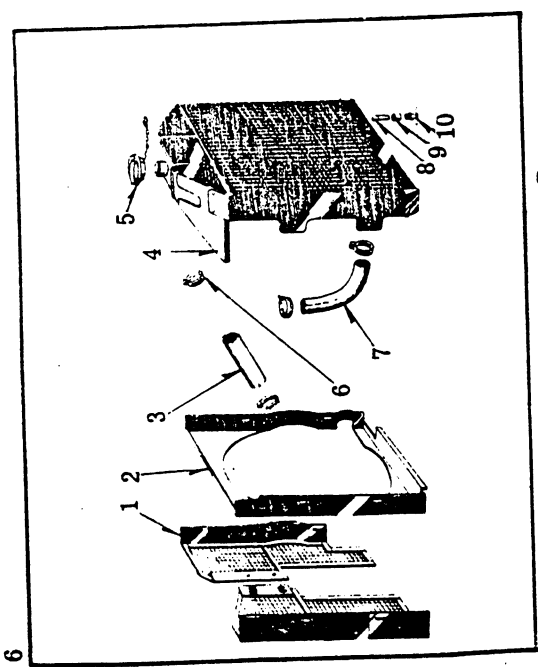


FIG. 6 RADIATOR GROUP

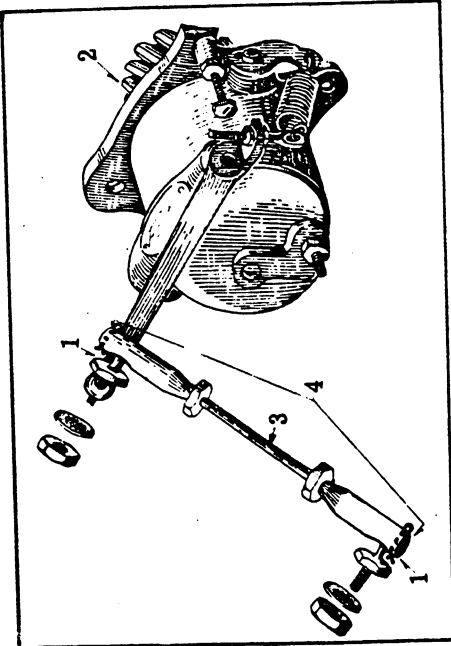


FIG. 7 GOVERNOR AND THROTTLE CONTROL ROD GROUP

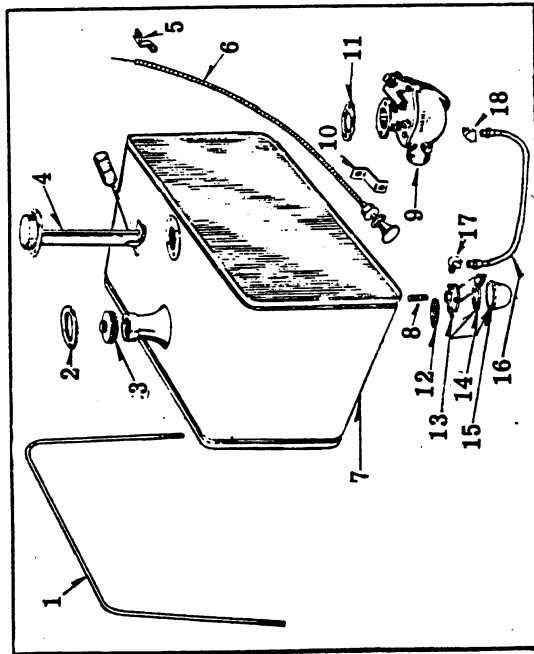


FIG. 9 FUEL SUPPLY GROUP

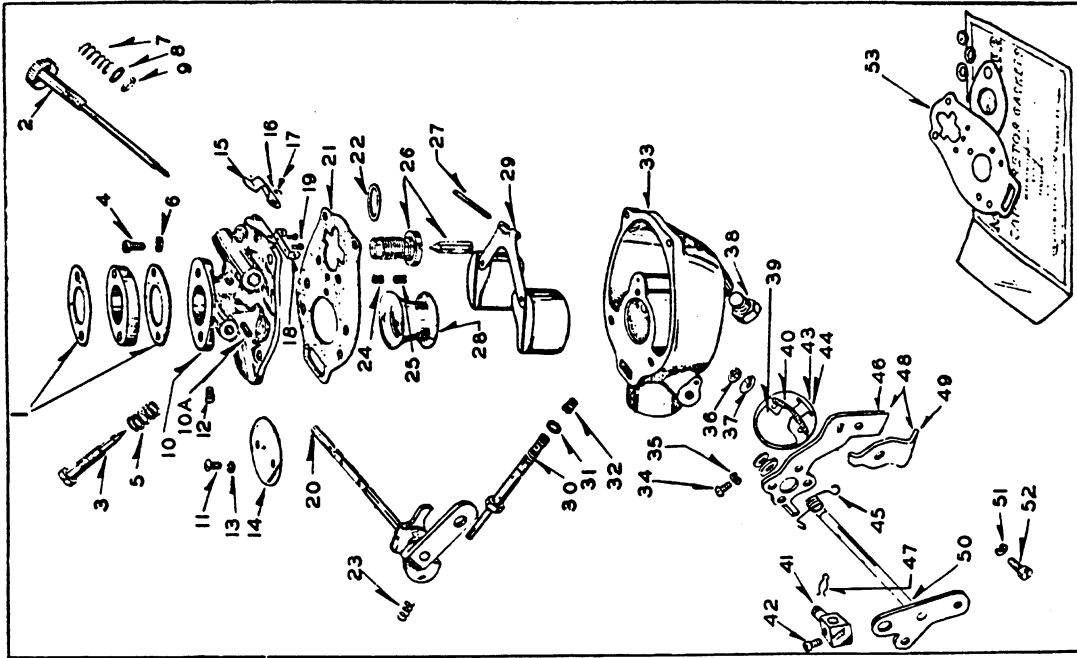


FIG. 10 CARBURETOR PARTS GROUP

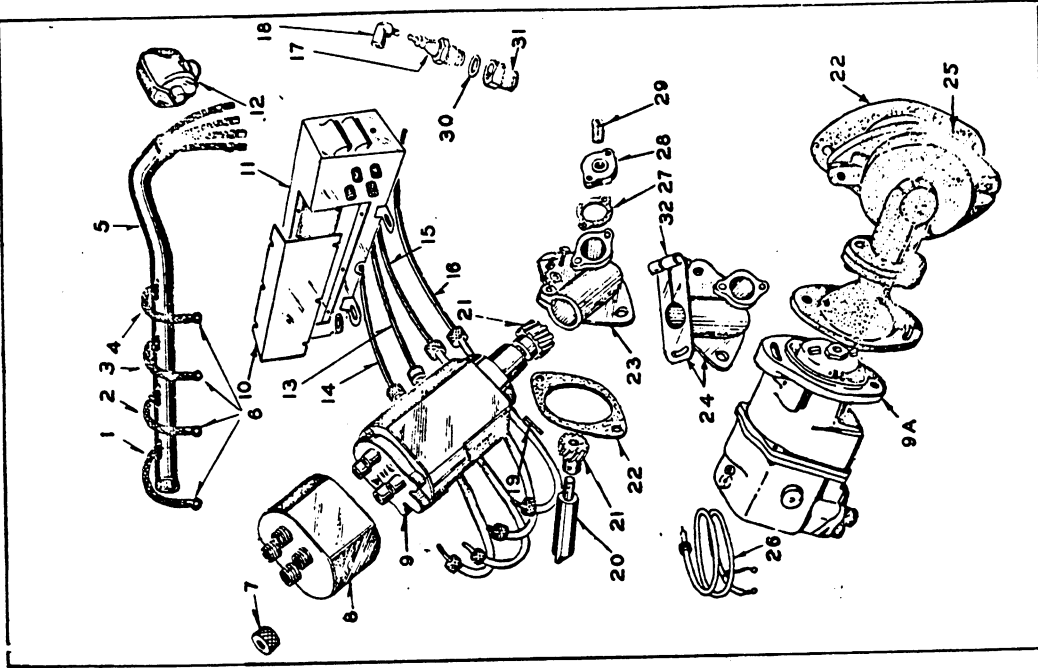


FIG.13 IGNITION GROUP

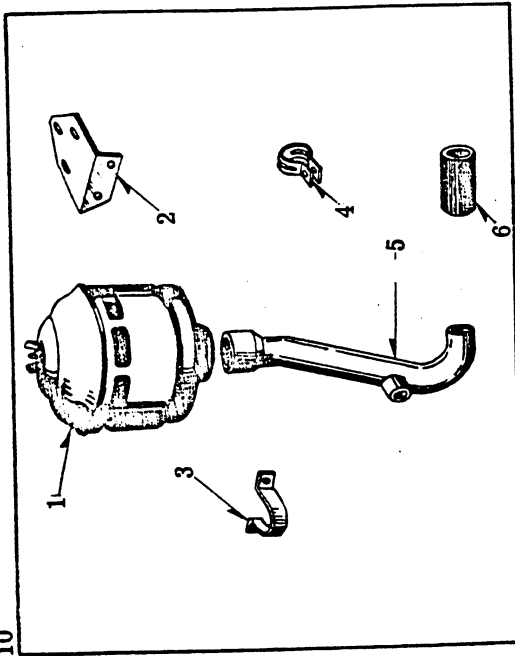


FIG.11 AIR CLEANER GROUP

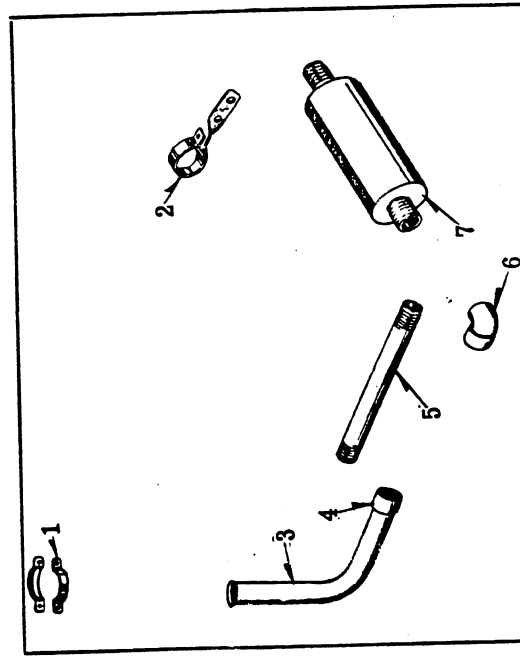


FIG.12 MUFFLER GROUP

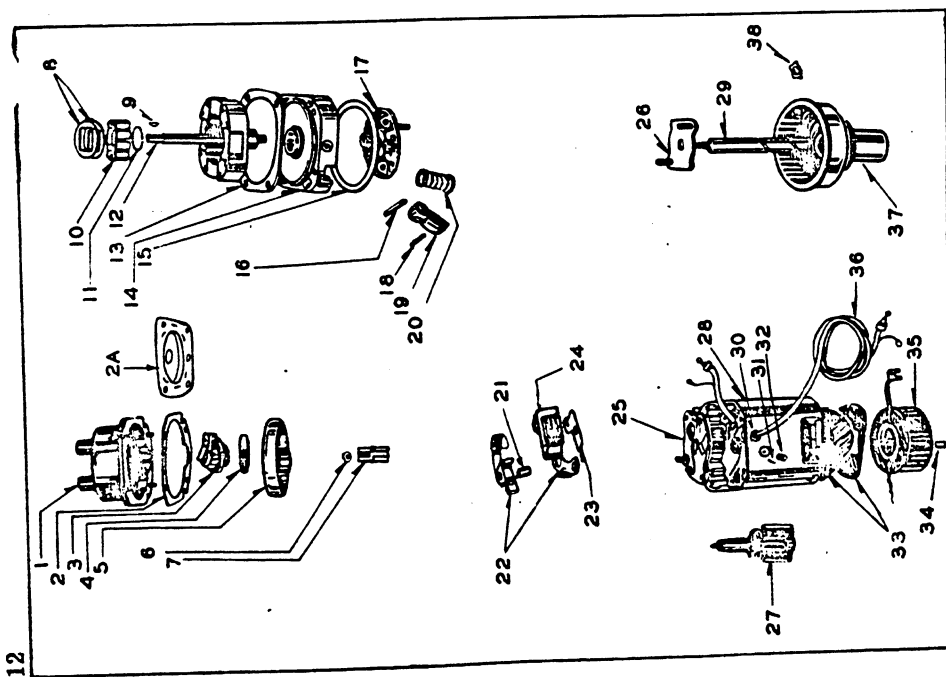


FIG.14 WICO MAGNETO PARTS GROUP

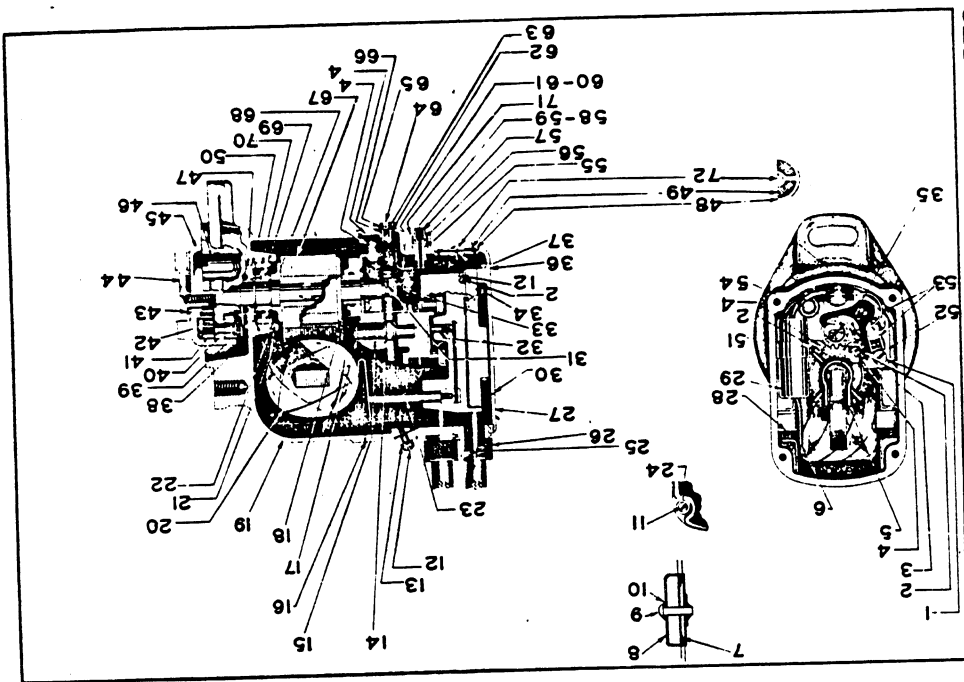


FIG.15 FAIRBANK-MORSE MAGNETO PARTS GROUP

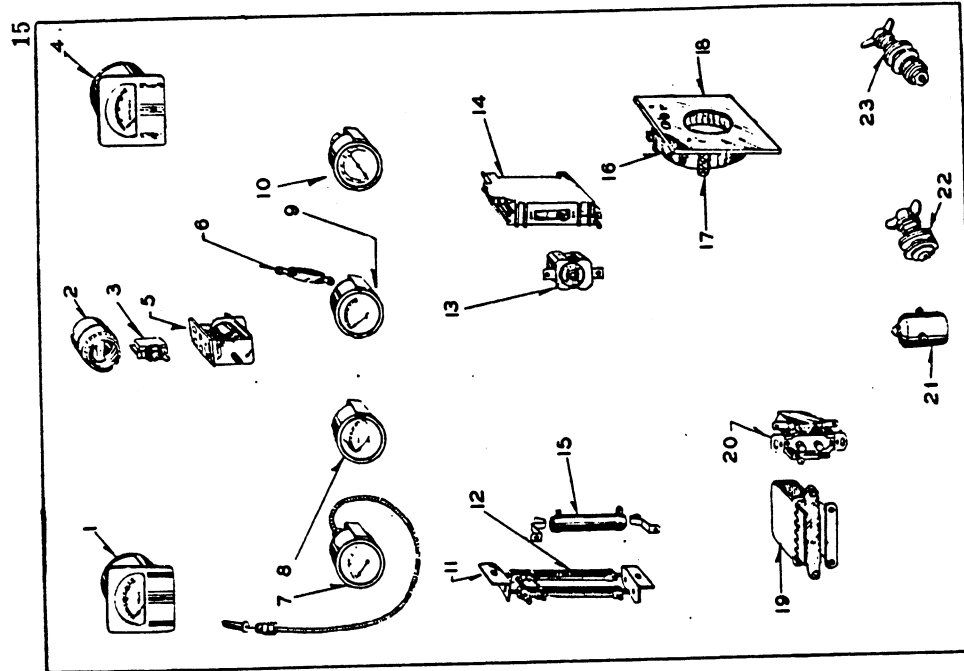


FIG.17 CONTROL GROUP

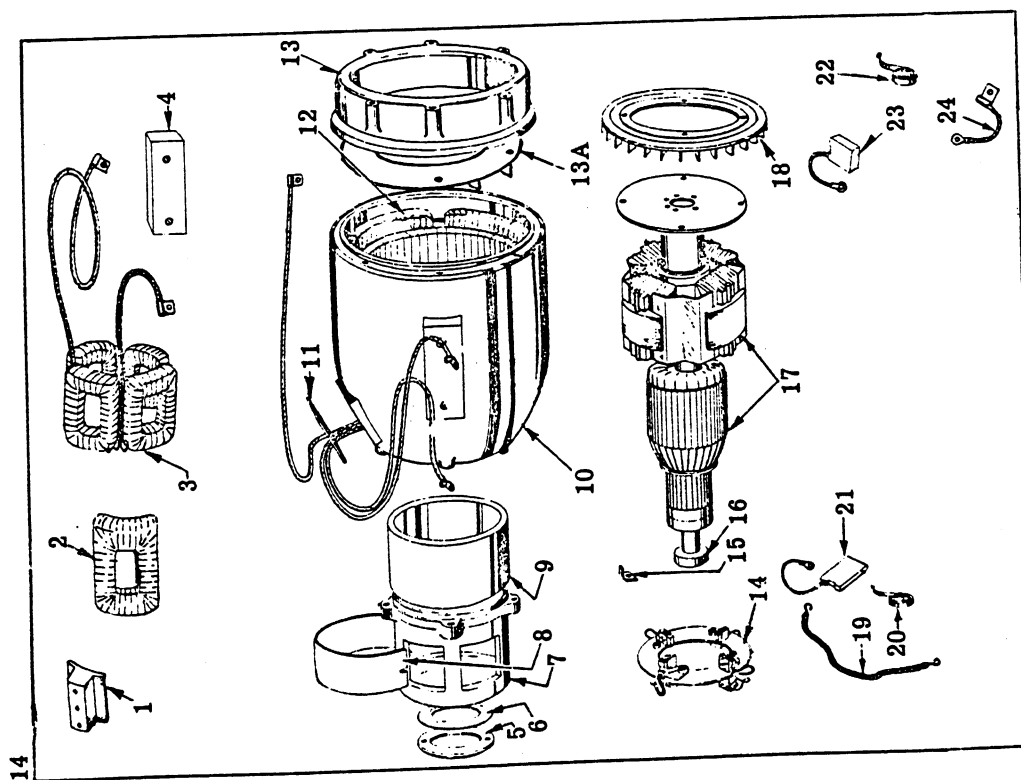


FIG.16 GENERATOR PARTS GROUP

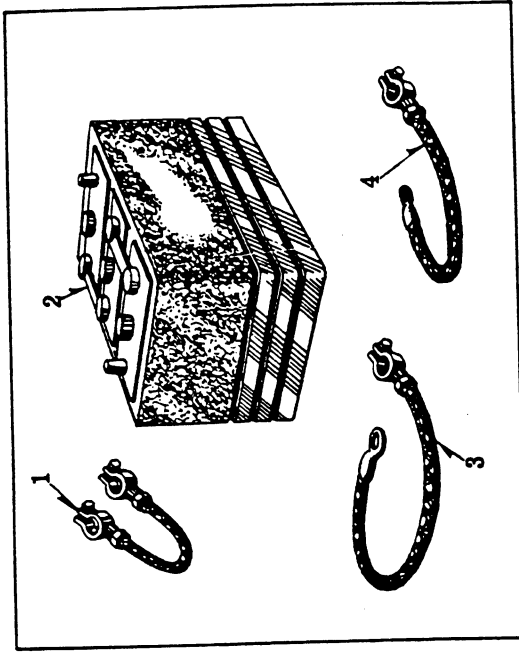


FIG.19 BATTERY GROUP

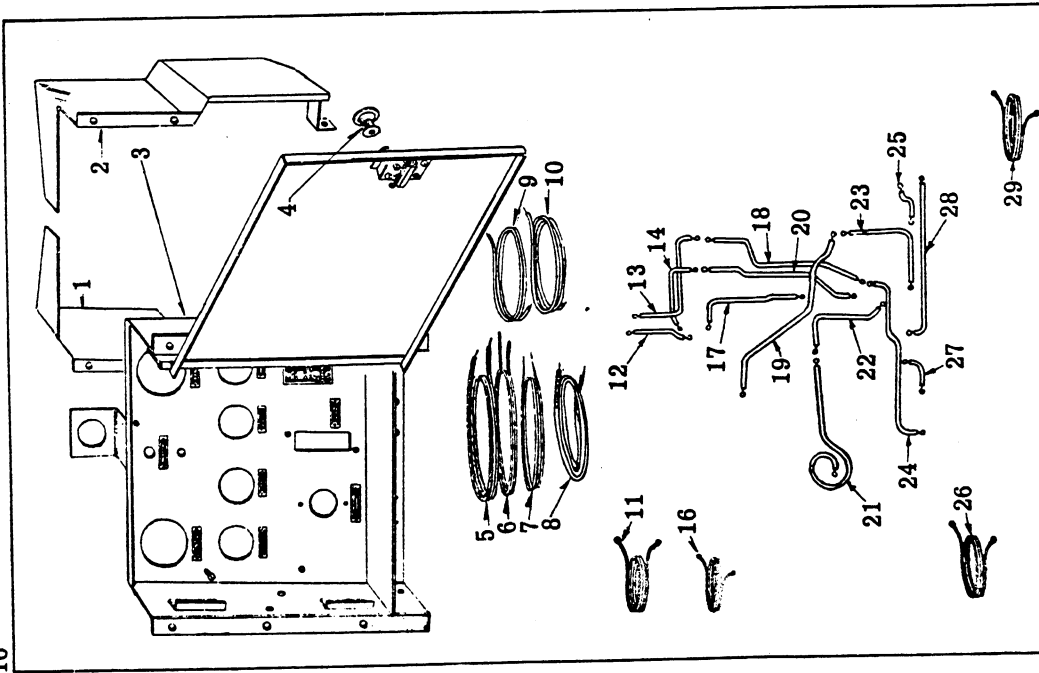
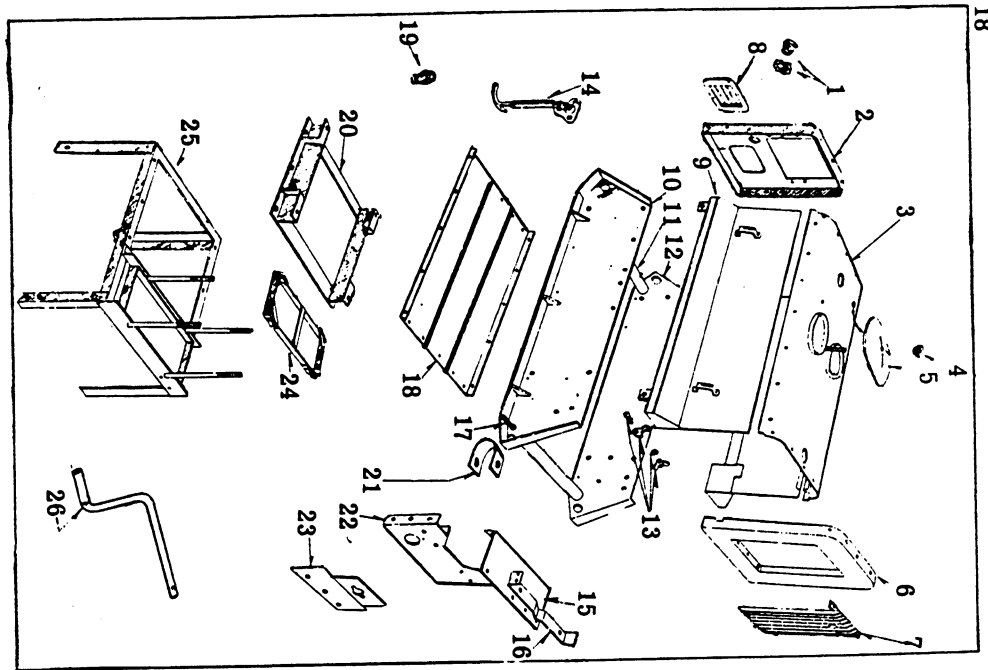


FIG.18 CONTROL PANEL AND WIRING GROUP

FIG.20 HOUSING PARTS GROUP



| REF. PART NO. NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|---|---------------|----|----|----|----|----|
| | | A | B | C | D | E | F |
| FIG. 1 - CYLINDER, MANIFOLD, OIL PAN & OIL DRAIN GROUP | | | | | | | |
| 1 | (FM)351025-S7 Nut, Cylinder Head Stud - 7/16"-20 | 18 | 18 | 18 | 18 | 18 | 18 |
| 2 | (FM)18-6066 Stud, Cylinder Head - Short | 14 | 18 | 18 | 18 | 18 | 18 |
| 2 | (FM)8N-6065A Stud, Cylinder Head - Short | 1 | | | | | |
| 3 | 123A211 Indicator, Oil Level | | 1 | 1 | 1 | 1 | 1 |
| 3 | (FM)9N-6750A Indicator, Oil Level | 1 | 1 | 1 | | | |
| 4 | (FM)2NC-6754 Tube, Oil Level Indicator | 1 | 1 | 1 | | | |
| 5 | 123A20 Cap, Oil Filler | 1 | 1 | 1 | | | |
| 5 | 123B386 Cap, Oil Filler (Replaces Cap # (FM)EAF-6766 or (FM)8N-6766B. | | | | 1 | 1 | 1 |
| 6 | (FM)48-6067 Stud, Cylinder Head - Long | 4 | | | | | |
| 7 | 110B509 Head, Cylinder | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 101A129 Cover, Starter Location Hole | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | (FM)99A-6055 Sleeve, Cylinder - .040" | 4 | 4 | 4 | | | |
| 9 | (FM)8N-6055B Sleeve, Cylinder | | | | 4 | 4 | 4 |
| 10 | 154A313 Gasket, Intake and Exhaust Manifold | 2 | 2 | 2 | 2 | 2 | 2 |
| 11 | (FM)88403-S Stud, Manifold to Block | 4 | 4 | 4 | 4 | 4 | 4 |
| 12 | 850-55 Washer, Manifold Stud Lock | 4 | 4 | 4 | 4 | 4 | 4 |
| 13 | 871-38 Nut, Manifold Stud | 4 | 4 | 4 | 4 | 4 | |
| 13 | 110-67 Nut, Manifold Stud | | | | | | 4 |
| 14 | (FM)74120-S Plug, Cylinder Block Rear Expansion | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 123P95 Pipe, Oil Filler | | | | 1 | 1 | 1 |
| 15 | 123B216 Pipe, Oil Filler | 1 | | | | | |
| | (FM)8N-6763B Pipe, Oil Filler | | 1 | 1 | | | |
| 16 | 110A548 Gasket, Cylinder Head | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 110A819 Block, Cylinder | | | | | 1 | 1 |
| 17 | (FM)8NNN-6010E Block, Cylinder | 1 | 1 | 1 | | | |
| 17 | (FM)8NNN-6011D Block, Cylinder | | | | 1 | | |
| 18 | (FM)8N-6018 Gasket, Timing Gear Side Cover | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | (FM)8N-9425 Manifold, Intake and Exhaust | | | | 1 | 1 | 1 |
| 19 | 78797?? Manifold, Intake and Exhaust | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|--|--------------|--|---------------|----|----|----|----|----|
| | | | A | B | C | D | E | F |
| FIG. 1 - CYLINDER, MANIFOLD, OIL PAN & OIL DRAIN GROUF (Cont.) | | | | | | | | |
| 19 | 154B107 | Manifold, Intake and Exhaust | | 1 | 1 | | | |
| 20 | (FM)88146-S | Stud, Valve Chamber Cover | 2 | 2 | 2 | | | |
| 20 | (FM)88511-S | Stud, Valve Chamber Cover | | | | | | |
| 21 | 850-45 | Washer, Lock - (2) Valve Chamber Cover - (14) Engine Pan to Block Bolt | | | | 2 | 2 | 2 |
| 22 | 868-2 | Nut, Valve Chamber | 16 | 16 | 16 | 16 | 16 | 16 |
| 23 | 110-514 | Cover, Valve Chamber | 2 | 2 | 2 | 2 | 2 | 2 |
| 24 | 110A803 | Gasket, Valve Chamber Cover | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 110C804 | Gasket, Valve Chamber Cover | 2 | 2 | 2 | 2 | 2 | 2 |
| 26 | (FM)9N-6017 | Gasket, Cylinder Front Cover | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 103A53 | Cover, Timing Gear Side | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | (FM)01A-6663 | Gasket, Governor to Timing Gear Side Cover | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | (FM)01A-6654 | Plunger, Oil Relief Valve | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | (FM)9N-6654 | Spring, Oil Relief Valve | 1 | | | | | |
| 30 | (FM)68-6666 | Spring, Oil Relief Valve | | 1 | 1 | 1 | 1 | 1 |
| 31 | (FM)52-12410 | Nut, Oil Relief Valve | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | (FM)1GA-6669 | Gasket, Oil Relief Valve | 1 | | | | | |
| 31 | 167-24 | Gasket, Oil Relief Valve | | | | 1 | 1 | 1 |
| 32 | 800-50 | Screw, Hex Head Cap - (5) Cylinder Front Cover - (3) Timing Gear Side Cover | | 1 | 1 | | | |
| 33 | (FM)34807-S2 | Washer, Lock - Timing Gear Cover Screw | 8 | 8 | 8 | 8 | 8 | 8 |
| 34 | (FM)9N-6043 | Plug, Engine Block Oil Pipe | 3 | 3 | 3 | 3 | 3 | 3 |
| 35 | (FM)18-6397 | Dowel, Valve Chamber Cover to Cylinder | 1 | 1 | 1 | 1 | 1 | 1 |
| 36 | (FM)0NY-6019 | Cover, Cylinder Front | 2 | 2 | 2 | 2 | 2 | 2 |
| 37 | (FM)8N-6701 | Packing, Crankshaft Front | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | (FM)8N-6710 | Packing, Crankshaft Rear | 2 | 2 | 2 | 2 | 2 | 2 |
| 39 | (FM)8N-6711 | Gasket, Oil Pan - Left Hand | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | (FM)B-6700A | Gasket, Oil Pan - Right Hand | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 110B351 | Packing, Crankshaft Front and Cylinder Front Cover | 2 | 2 | 2 | 2 | 2 | 2 |
| | | Cover, Valve Chamber (With Breather Outlet) | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|--|--------------|--|---------------|----|----|----|----|----|
| | | | A | B | C | D | E | F |
| FIG. 1 - CYLINDER, MANIFOLD, OIL PAN & OIL DRAIN GROUP (Cont.) | | | | | | | | |
| 41 | 123A282 | Cover, Valve Chamber (With Breather Outlet) | | 1 | 1 | 1 | 1 | 1 |
| 42 | 75783 | Cover, Fuel Pump Hole | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | (FM)2NC-6675 | Pan, Oil | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 800-26 | Screw, Engine Pan to Cylinder Block Hex Head Cap | 14 | 14 | 14 | 14 | 14 | 14 |
| 45 | 102A52 | Gasket, Drain Plug | 1 | 1 | 1 | | | |
| 45 | (FM)8N-6734 | Gasket, Drain Plug | 1 | 1 | 1 | | | |
| 46 | 505-50 | Elbow, Oil Drain Street | | | | 1 | 1 | 1 |
| 47 | 505-234 | Nipple, Oil Drain Pipe | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | 505-14 | Coupling, Oil Drain | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 505-13 | Plug, Oil Drain Pipe | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 502-5 | Elbow, Oil Line Inverted Female (Brass) | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 | 502-3 | Connector, Oil Line Inverted Male (Brass) | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 | 502-41 | Elbow, Oil Line Restricted Inverted Male (Brass) | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | 160A425 | Tube, Oil Line Copper - 1/4" x 33" - Magneto Gearcase to Engine Block | 1 | 1 | 1 | 1 | 1 | 1 |
| 54 | 501-9 | Line, Oil Pressure Gauge to Engine Block Flexible Oil | 1 | 1 | 1 | 1 | 1 | 1 |
| 55 | 502A64 | Tee, Oil Line (Brass) | 1 | 1 | 1 | 1 | 1 | 1 |
| 56 | 123A217 | *Valve, Crankcase Breather | 1 | 1 | 1 | 1 | 1 | 1 |
| 56 | 123-188 | Valve, Crankcase Breather | 1 | | | | | |
| 57 | 505-11 | *Elbow, Breather Valve to Manifold Street (1/4") | 1 | 1 | 1 | 1 | 1 | 1 |
| 58 | 123A484 | *Tube, Breather | 1 | 1 | 1 | 1 | 1 | 1 |
| 59 | 502-42 | *Elbow, Breather Tube to Valve Brass Inverted Male | 1 | 1 | 1 | 1 | 1 | 1 |
| 60 | 502-18 | *Connector, Valve Cover Brass Inverted Male | 1 | 1 | 1 | 1 | 1 | 1 |
| 61 | 309-11 | †Thermostat | 1 | 1 | 1 | 1 | 1 | 1 |
| 62 | 309-1 | ΔSwitch, High Water Temperature Cut-off | 1 | 1 | 1 | 1 | 1 | 1 |
| 62 | 309B9 | Switch, High Water Temperature Cut-off | 1 | | | | | |
| 62 | 309B9FT | Switch, High Water Temperature Cut-off | | 1 | 1 | 1 | | |
| 63 | 336A11 | ΔWire, High Water Temperature Switch to Magneto - 27-1/2" Long (Shielded) | 1 | | | | 1 | 1 |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|----------|---|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 1 - CYLINDER, MANIFOLD, OIL PAN & OIL DRAIN GROUP (Cont.) | | | | | | | | |
| 63 | 336A904 | †Wire, High Water Temperature Cut-off Switch to Stop Button - 62" Long (Shielded) | 1 | | | | | |
| 63 | 336A903 | Wire, High Water Temperature Cut-off to Magneto - 72" Long (Shielded) | | 1 | 1 | 1 | 1 | 1 |
| | 110A347 | Plate, Valve Compartment Baffle - Left Hand | | 1 | 1 | 1 | 1 | 1 |
| | 110A348 | Plate, Valve Compartment Baffle - Right Hand | | 1 | 1 | 1 | 1 | 1 |
| | 406A45 | Spring, Valve Compartment Baffle Plate | | 2 | 2 | 2 | 2 | 2 |
| (FM)40-6057A | | Insert, Valve Seat - Intake | 4 | 4 | 4 | 4 | 4 | 4 |
| (FM)52-6057E | | Insert, Valve Seat - Exhaust | 4 | 4 | 4 | 4 | 4 | 4 |
| NOTE: SYMBOLS BELOW TO BE USED ONLY IF SELECTION IS BEING MADE FROM COLUMN "A". ALL OTHER COLUMNS TO IGNORE ANY SYMBOL. | | | | | | | | |
| * = Used Beginning with Engine Serial Number 192840. | | | | | | | | |
| † = Used on units with the following Engine Serial Numbers: 163958 to 164085 inclusive, 175038 to 175800 inclusive, 187065 to 187760 inclusive, and 192840 or higher. | | | | | | | | |
| ▲ = Used on units with the following Engine Serial Numbers: 141950, 141952 to 142593 inclusive, 163107 to 164085 inclusive, 174116 to 174462 inclusive, 174663 to 175800 inclusive, 182684 to 183476 inclusive and 187065 to 187760 inclusive. | | | | | | | | |
| § = Use on units with the following Engine Serial Numbers: 141950, 141952 to 142593 inclusive, 163107 to 164085 inclusive, 174116 to 174462 inclusive, and 182684 to 183476 inclusive. | | | | | | | | |
| ¶ = Use on units with the following Engine Serial Numbers: 174663 to 175800 inclusive and 187065 to 187760 inclusive. | | | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|----------------|---|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 2 - VALVE & CAMSHAFT GROUP | | | | | | | | |
| 1 | 40-6510C | Bushing, Valve Guide (2 Pieces) Sold in pairs only | 8 | | | | | |
| 1 | (FM)8BA-6510B | Bushing, Valve Guide (2 Pieces) Sold in pairs only | | 8 | 8 | 8 | 8 | 8 |
| 2 | (FM)2NCS-6505 | Valve, Exhaust (See also Valve Kit ⊗) | 4 | 4 | 4 | 4 | | 4 |
| 2 | (FM)8NNN-6505A | Valve, Exhaust - Stellite (See also Valve Kit ⊗) | | | | | 4 | 4 |
| 3 | (FM)11T-6505A | Valve, Intake | 4 | 4 | 4 | 4 | | 4 |
| 3 | (FM)8BA-6505 | Valve, Intake | | | | | 4 | 4 |
| 4 | (FM)40-6512 | Retainer, Valve Guide Bushing | | 8 | 8 | 8 | 8 | 8 |
| 5 | (FM)40-6514B | Retainer, Valve Spring (See also note below) | | 8 | 8 | 8 | | 4 |
| 5 | (FM)8BA-6514 | Retainer, Valve Spring (Intake Only)See also note below | | 8 | 8 | 8 | 8 | 4 |
| 6 | (FM)2NC-6513 | Spring, Valve | | | | | 8 | 8 |
| 6 | (FM)8N-6513 | Spring, Valve | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | (FM)91A-6266 | Plug, Expansion (2") Rear Camshaft Hole | 8 | 8 | 8 | 8 | | |
| 8 | (FM)8BA-6500A | Rod, Push - Valve (Tappet) See also note below | | | | | 8 | 8 |
| 8 | (FM)8N-6500 | Rod, Push - Valve (Tappet) | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | (FM)2NC-6250B | Camshaft | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | (FM)7RA-6256A | Gear, Camshaft | 4 | 4 | 4 | 4 | 4 | 4 |
| 11 | (FM)350400S | Bolt, Camshaft Gear | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | (FM)91A-6258 | Ring, Camshaft Gear Locking | | | | | 4 | 4 |
| | (FM)8RT-6514 | Retainer, Valve Spring (Exhaust) | | | | | 8 | 8 |
| | (FM)EAM-6518A | Key, Valve Spring Retainer (Exhaust) | | | | | 4 | 4 |
| | (FM)8EQ-6550B | Cap, Valve Stem (Exhaust) | | | | | | |
| | (FM)8N-6546B | ⊗ Valve Kit, Rotocap - Complete (For conversion only) For Longer Valve Life (See also note below) | | | | | | |
| NOTE: - On units which have been converted to the roto-type valve use these parts in place of those in the list above. (For complete conversion use Kit # (FM)8N-6546B). | | | | | | | | |
| | (FM)8N-6500 | Rod, Push (Tappet Assembly) 8 used | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | DESCRIPTION | QUANTITY USED | | | | | |
|---|---|---------------|---|---|---|---|---|
| | | A | B | C | D | E | F |
| FIG. 2 - VALVE & CAMSHAFT GROUP (Cont.) | | | | | | | |
| (FM)8N-6505C | Valve, Exhaust (4 used) | | | | | | |
| (FM)8RT-6514B | Retainer, Valve Spring (Exhaust) 4 Used | | | | | | |
| (FM)EAM-6518A | Key, Valve Spring Retainer (Exhaust) 8 Used | | | | | | |
| (FM)8EQ-6550B | Cap, Valve Stem (Exhaust) 4 Used | | | | | | |
| (FM)8BA-6510P | Guide, Valve (8 Used) | | | | | | |
| (FM)8N-17045A | Wrench - Right Hand (1 Used) | | | | | | |
| (FM)8N-17046A | Wrench - Left Hand (1 Used) | | | | | | |
| FIG. 3 - FLYWHEEL, CRANKSHAFT & PISTON GROUP | | | | | | | |
| 1 | (FM)350645-S Bolt, Flywheel Hex Head | 4 | 4 | 4 | 4 | 4 | 4 |
| 2 | (FM)9N-6384 Gear, Flywheel Ring | 1 | | | | | |
| 3 | (FM)9N-6375 Flywheel and Ring Gear Assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | (FM)8N-6375 Flywheel and Ring Gear Assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | (FM)91A-6335 Seal, Crankshaft Rear Bearing Oil | 8 | 8 | 8 | 8 | 8 | 8 |
| 5 | (FM)9N-6333E Liner, Main Bearing - Front and Rear (.010 U.S.) | 4 | | | | | |
| 6 | (FM)99A-6135A Pin, Piston - Standard | 4 | 4 | 4 | 4 | 4 | 4 |
| 6 | (FM)19A-6135A Pin, Piston - Standard | 8 | 8 | 8 | 8 | 8 | 8 |
| 7 | (FM)78-6140 Retainer, Piston Pin | 8 | | | | | |
| 8 | (FM)1GA-6212 Nut, Connecting Rod | 8 | 8 | 8 | 8 | 8 | 8 |
| 8 | (FM)7HA-6212 Nut, Connecting Rod | 4 | 4 | 4 | 4 | 4 | 4 |
| 9 | (FM)8N-6108B Piston, Standard - W/Pin & Retainers | 8 | 8 | 8 | | | |
| 10 | (FM)99A-6150A Ring, Piston Compression | 4 | 4 | 4 | | | |
| 11 | (FM)99A-6153A Ring, Piston Oil Control | | | | | | |
| | (FM)1NCS-6149A Ring Set, Piston (For 4 Pistons) Special - for use in worn cylinders when diameter of worn cylinder does not exceed .010" over standard bore and it is not desirable to install new cylinder sleeves (Not Illustrated) | 1 | 1 | 1 | | | |
| WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT! | | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|---|----------------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 3 - FLYWHEEL, CRANKSHAFT & PISTON GROUP (Cont.) | | | | | | | | |
| | (FM)8N-6149A5 | Ring Set, Piston (For 4 Pistons) Special-for use in worn cylinders when diameter of worn cylinder does not exceed .010" over standard bore and it is not desirable to install new cylinder sleeves (Not Illustrated) | 4 | 4 | 4 | 1 | 1 | 1 |
| 12 | (FM)9N-6200B | Rod Assembly, Connecting | 8 | 8 | 8 | 8 | 8 | 8 |
| 13 | (FM)9N-6211G | Liner, Connecting Rod Bearing (.020" U.S.) | 1 | | | | | |
| 14 | (FM)9N-6346 | Stud, Main Bearing Cap - Long | | 1 | 1 | 1 | 1 | 1 |
| 14 | (FM)8N-6346A | Stud, Main Bearing Cap - Long | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | (FM)48-6306A | Gear, Crankshaft (22 teeth) | 1 | 1 | 1 | | | |
| 16 | (FM)40-6310A | Slinger, Crankshaft Oil | | | | 1 | 1 | 1 |
| 16 | (FM)40-6310A2 | Slinger, Crankshaft Oil | 5 | | | | | |
| 17 | (FM)9N-6345 | Stud, Main Bearing Cap - Short | | 5 | 5 | 5 | 5 | 5 |
| 17 | (FM)8N-6345A | Stud, Main Bearing Cap - Short | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | (FM)9N-6325 | Cap, Crankshaft Bearing - Rear | 6 | 6 | 6 | | | |
| 19 | (FM)B-6348 | Nut, Main Bearing Stud Castle | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | (FM)9N-6303A | Crankshaft | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | (FM)9N-6330 | Cap, Crankshaft Bearing - Center | 2 | 2 | 2 | 2 | 2 | 2 |
| 22 | (FM)9N-6331E | Liner, Main Bearing - Center (.010" U.S.) | 8 | 8 | 8 | | | |
| 23 | 516-69 | Pin, Cotter - Connecting Rod | 1 | 1 | 1 | | | |
| 24 | (FM)74156-S | Key, Crankshaft Gear Woodruff | | | | 1 | 1 | 1 |
| 24 | (FM)74175-S | Key, Crankshaft Gear Woodruff | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | (FM)2N-6312 | Pulley, Crankshaft | 1 | | | | | |
| 26 | (FM)2N-6319A | Ratchet, Crankshaft (Nut) | | 1 | 1 | 1 | 1 | 1 |
| 26 | (FM)2N-6319A1 | Ratchet, Crankshaft (Nut) | 8 | 8 | 8 | | | |
| | (FM)3513v3-S | Lockwasher, Connecting Rod Bolt (Not Illustrated) | | | | 4 | 4 | 4 |
| | (FM)21A-6207B3 | Bushing, Connecting Rod (Not Illustrated) | | | | 8 | 8 | 8 |
| | (FM)45218-S | Nut, Connecting Rod Lock | | | | 1 | 1 | 1 |
| | (FM)7RA-7609 | Retainer, Flywheel | 2 | 2 | 2 | | | |
| | (FM)B-6387A | Dowel, Flywheel to Crankshaft | | | | 2 | 2 | 2 |
| | (FM)1CM-6387A | Dowel, Flywheel to Crankshaft | | | | | | |
| WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT! | | | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|---|--------------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 4 - OIL PUMP GROUP | | | | | | | | |
| 1 | 121A1 | Gasket, Oil Pump Cover | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | (FM)52-6614B | Gear, Oil Pump Driving | 1 | | | | | |
| 2 | (FM)8N-6614 | Gear, Oil Pump Driving | | 1 | 1 | 1 | 1 | 1 |
| 3 | (FM)9N-6603 | Body, Oil Pump | 1 | | | | | |
| 3 | (FM)8N-6603 | Body, Oil Pump | | 1 | 1 | 1 | 1 | 1 |
| 4 | (FM)9N-6615 | Cover, Oil Pump - W/Tube and Screen Cover | 1 | | | | | |
| 4 | (FM)8N-6615 | Cover, Oil Pump - W/Tube and Screen Cover | | 1 | 1 | 1 | 1 | 1 |
| 5 | 101A126 | Cap. Oil Drain - Complete (W/2-5/8" - 20 Fine Thread) | x | 1 | 1 | 1 | 1 | 1 |
| 5 | 101A53 | Cap. Oil Drain - Complete (W/2-5/8"- 12 Coarse Thread) | x | | | | | |
| 6 | (FM)52-6610B | Gear, Oil Pump Driven | 1 | | | | | |
| 6 | (FM)8N-6610 | Gear, Oil Pump Driven | | 1 | 1 | 1 | 1 | 1 |
| 7 | (FM)9N-6612A | Bushing, Oil Pump Body | 1 | | | | | |
| 7 | (FM)9N-6612B | Bushing, Oil Pump Body | | 1 | 1 | 1 | 1 | 1 |
| 8 | (FM)9N-6608A | Gear, Oil Pump - Drive and Shaft Assembly | 1 | | | | | |
| 8 | (FM)8N-6608 | Gear, Oil Pump - Drive and Shaft Assembly | | 1 | 1 | 1 | 1 | 1 |
| | 505-13 | Plug, Oil Drain Pipe | 1 | 1 | 1 | 1 | 1 | 1 |
| FIG. 5 - WATER PUMP, FAN & IDLER ASSEMBLY GROUP | | | | | | | | |
| | (FM)8N-8501 | Pump Assembly, Water (Not Illustrated) | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 130C325 | Fan, Engine Cooling | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | (FM)9N-8606 | Pulley, Fan and Water Pump | 1 | | | | | |
| 2 | (FM)2N-8610 | Pulley, Fan and Water Pump | | 1 | 1 | 1 | 1 | 1 |
| 3 | 511-12 | Belt, Fan | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | (FM)OBA-7576 | Ring, Water Pump Housing Snap | 1 | | | | | |
| 4 | (FM)7HA-8576 | Ring, Water Pump Housing Snap | | 1 | 1 | 1 | 1 | 1 |
| 5 | (FM)79-8530 | Shaft, Water Pump and Bearing Assembly | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | | DESCRIPTION | QUANTITY USED | | | | | |
|---|--------------|---|-------------|---------------|---|---|---|---|---|
| | | | | A | B | C | D | E | F |
| FIG. 5 - WATER PUMP, FAN & IDLER ASSEMBLY GROUP (Cont.) | | | | | | | | | |
| 5 | (FM)2N-8578 | Shaft, Water Pump and Bearing Assembly | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | (FM)2N-8505 | Housing, Water Pump (Body) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 131P100 | Ring, Water Pump Seal Snap | 1 | | | | | | |
| 8 | 131P102 | Washer, Water Pump | 1 | | | | | | |
| 9 | 131P103 | Guide, Water Pump Spring | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 132A54 | Gasket, Water Pump Cover | 1 | | | | | | |
| 11 | 130A365 | *Stud, Idler Pulley Tightener | 1 | | | | | | |
| 12 | 130A366 | *Stud, Idler Pulley Arm and Nut | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 505-53 | Plug, Slotted Iron Pipe | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 130C318 | Pulley Assembly, Idler (Includes Pulley, Bracket & Hardware)... | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 510A35 | Stud, Idler Pulley | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 130A323 | Bearing | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 516-55 | Ring, Idler Pulley Lock | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | | Pin, Idler Stud Groove | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | | *Arm, Idler Pulley (Use Pulley Assembly #130C318) | 1 | | | | | | |
| 21 | | *Bracket, Idler Pulley (Use Pulley Assembly #130C318) | 1 | | | | | | |
| 21 | 131P101 | Seal, Water Pump - Impeller End | | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | (FM)2N-8564 | Seal, Water Pump - Impeller End | 1 | | | | | | |
| 22 | 131P104 | Ring, Water Pump Seal Clamp | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 23 | 868-2 | Nut, Body Assembly Hex | 1 | | | | | | |
| 24 | (FM)68-8551A | Spring, Impeller End | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 25 | 850-45 | Lockwasher, Body Assembly | 1 | | | | | | |
| 26 | 3225 | Impeller | | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | (FM)2N-8516 | Impeller | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 27 | (FM)88371-S | Stud, Pump to Cylinder Block | 1 | | | | | | |
| 28 | (FM)9N-8508 | Cover, Water Pump | | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | (FM)8N-8508 | Cover, Water Pump | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 132A53 | Gasket, Water Pump Rear (To Cylinder Block) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 800-25 | Screw, Body Assembly Hex Head | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|----------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 5 - WATER PUMP, FAN & IDLER ASSEMBLY GROUP (Cont.) | | | | | | | | |
| 31 | 130B322 | †Arm, Idler Pulley | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 130C317 | †Bracket, Idler Pulley | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 130A320 | †Pulley, Fan Idler | 1 | 1 | 1 | 1 | 1 | 1 |
| | 130A94 | †Screw, Belt Tension Adjusting | 1 | 1 | 1 | 1 | 1 | 1 |
| * = Use only on units with the following Engine Serial Numbers: - 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142254 inclusive, 142256 to 142396 inclusive, 142398 to 142593 inclusive, 163107 and 163108. | | | | | | | | |
| † = Use on units with the following Engine Serial Numbers: - 142255, 142397, 163109 to 164085 inclusive, 174116 to 175800 inclusive, 182684 to 183476 inclusive, and 187065 to 187760 inclusive AND ALSO ON ALL REPLACEMENT ENGINES. | | | | | | | | |
| FIG. 6 - RADIATOR GROUP | | | | | | | | |
| 1 | 130C324 | Guard, Fan | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 130C319 | Shroud, Fan | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 503A2 | Hose, Radiator Inlet | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 130P328 | Radiator (Tank & Core Assembly) | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 130A337 | Cap Assembly, Radiator | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 503P4 | Clamp, Radiator Hose (Includes Bolt & Nut) | 4 | 4 | 4 | 4 | 4 | 4 |
| 7 | 503A1 | Hose, Radiator Outlet | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 505-71 | Nipple, Radiator Drain | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 505-27 | Coupling, Radiator Drain | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 504-3 | Cock, Radiator Drain | 1 | 1 | 1 | 1 | 1 | 1 |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|---|------------|---|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 7 - GOVERNOR & THROTTLE CONTROL ROD GROUP | | | | | | | | |
| 1 | 150A69 | Joint, Ball - (1) Throttle Control Rod to Governor Arm, (1)Throttle Control Rod to Carburetor | 2 | 2 | 2 | 2 | 2 | 2 |
| | | Governor Assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 151C32 | Rod, Throttle Control | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 520A198 | Rod Assembly, Throttle Control (Includes Rod, Ball Joints & Hardware) | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 150A226 | | | | | | | |
| FIG. 8 - GOVERNOR PARTS GROUP | | | | | | | | |
| 1 | (PG)X-454 | Plug, Governor Spider Shaft Welch | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | (PG)G-3168 | Bushing, Oilite | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | (PG)G-5113 | Screw, Bumper | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | (PG)X-217 | Nut, Bumper Screw and Screw Eye Hex | 3 | 3 | 3 | 3 | 3 | 3 |
| 5 | (PG)X-607 | Plug, Rocker Shaft Welch | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | (PG)X-935 | Pin, Spider to Shaft Groove | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | (PG)X-317 | Bearing, Thrust | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | (PG)G-7121 | Shaft, Governor | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | (PG)A-1837 | Spider Assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 510A34 | Bearing | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | (PG)G-7118 | Diaphragm, Governor Bearing | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 151-108 | Gear, Governor | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | (PG)SN-266 | Spring, Bumper | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | (PG)G-7117 | Body, Governor | 2 | 2 | 2 | 2 | 2 | 2 |
| 15 | (PG)X-380 | Bearing, Rocker Shaft Needle | 2 | 2 | 2 | 2 | 2 | 2 |
| 16 | (PG)G-7490 | Ring, Rocker Shaft Snap | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | (PG)G-7120 | Shaft, Governor Rocker | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | (PG)X-425 | Pin, Adjusting Lever Stud Cotter | 1 | 1 | 1 | 1 | 1 | 1 |
| ADDS REQUIRED TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT! | | | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|---------------------------------------|------------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 8 - GOVERNOR PARTS GROUP (Cont.) | | | | | | | | |
| | | Lockwasher, Yoke to Shaft | 2 | 2 | 2 | 2 | 2 | 2 |
| | | Screw, Yoke to Shaft Hex Head | 2 | 2 | 2 | 2 | 2 | 2 |
| 19 | (PG)X-540 | Yoke | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | (PG)X-723 | Sleeve | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | (PG)G-6026 | Weight, Governor | 2 | 2 | 2 | 2 | 2 | 2 |
| 22 | (PG)G-7579 | Pin, Weight | 2 | 2 | 2 | 2 | 2 | 2 |
| 23 | (PG)G-6653 | Pin, Bearing Diaphragm Locating Groove | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | (PG)G-5950 | Pin, Gear to Shaft Groove | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | (PG)X-1004 | Lever, Governor | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | (PG)X-934 | Pin, Lever to Shaft Taper | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | (PG)G-7119 | Washer, Bearing to Cap Shakeproof | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | (PG)X-82 | Screw, Bearing to Cap Round Head Machine | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | (PG)X-596 | Nut, Adjusting Lever Screw Hex | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | (PG)X-198 | Screw, Adjusting Lever Hex Head Cap | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 860-12 | Seal, Rocker Shaft Oil | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | (PG)X-911 | Eye, Adjusting Screw | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | (PG)X-695 | Spring, Governor | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | (PG)G-3947 | Lever, Adjusting | 1 | 1 | 1 | 1 | 1 | 1 |
| 35 | 151A137 | | | | | | | |
| 36 | (PG)G-5715 | | | | | | | |

FIG. 9 - FUEL SUPPLY GROUP

| | | | | | | | |
|---|---------|--|---|---|---|---|---|
| 1 | 159B457 | Rod, Fuel Tank Hold Down | 2 | 2 | 2 | 2 | 2 |
| 2 | 159A439 | *Washer, Fuel Tank Neck - Neoprene | 1 | 1 | 1 | 1 | 1 |
| 2 | 159A441 | †Washer, Fuel Tank Neck - Neoprene | 1 | 1 | 1 | 1 | 1 |
| 3 | 159A448 | *Cap, Fuel Tank - W/Chain | 1 | 1 | 1 | 1 | 1 |
| 3 | 159B20 | †Cap, Fuel Tank - W/Chain | 1 | 1 | 1 | 1 | 1 |
| 4 | 193-15 | Float Assembly, Fuel Gauge | 1 | 1 | 1 | 1 | 1 |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|------------------------------------|-------------|---|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 9 - FUEL SUPPLY GROUP (Cont.) | | | | | | | | |
| | | Clip, Choke Bracket | 1 | 1 | | 1 | 1 | 1 |
| | | Rod, Manual Choke Control | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 153A69 | Tank, Fuel (15 Gallon) | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 153P190 | Nipple | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 159D456 | Carburetor Assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 502-46 | Bracket, Choke Cable | 1 | | | | | |
| 9 | 142C108 | Gasket, Carburetor Flange | | 1 | 1 | 2 | 2 | 2 |
| 10 | 75853 | Gasket, Carburetor Flange - 2 Used W/Spacer | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | (FM)9N-9447 | Screen, Fuel Filter Bowl | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 154A49 | Filter Assembly, Fuel | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 149P465 | Gasket, Fuel Filter Bowl | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 149A12 | Bowl, Fuel Filter | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 149-157 | Line, Flexible Fuel | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 149A326 | Elbow, Street (90°) | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 501-8 | Elbow, Inverted Male | | | | | | |
| 17 | 502-20 | Spacer, Carburetor | | | | 2 | 2 | 2 |
| 18 | 502-2 | Stud, Carburetor to Manifold | | | | 2 | 2 | 2 |
| | 145-66 | Nut, Carburetor to Manifold Stud | | | | | | |
| | 520-223 | | | | | | | |
| | 110-445 | | | | | | | |

* - Use only on Units with the following Engine Serial Numbers:- 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142254 inclusive, 142256 to 142396 inclusive, 142398 to 142593 inclusive, 163107 and 163108.

† - Use on units with the following Engine Serial Numbers: 142255, 142397, 163109 to 164085 inclusive, 174116 to 174462 inclusive, 174663 to 175800 inclusive, 182684 to 183476 inclusive and 187065 to 187760 inclusive AND ALSO ON ALL REPLACEMENT ENGINES.

* = Use only on Units with the following Engine Serial Numbers:- 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142254 inclusive, 142256 to 142396 inclusive, 142398 to 142593 inclusive, 163107 and 163108.

† = Use on units with the following Engine Serial Numbers: 142255, 142397, 163109 to 164085 inclusive, 174116 to 174462 inclusive, 174663 to 175800 inclusive, 182684 to 183476 inclusive and 187065 to 187760 inclusive AND ALSO ON ALL REPLACEMENT ENGINES.

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|----------------------------------|-------------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 10 - CARBURETOR PARTS GROUP | | | | | | | | |
| 1 | (FM)9N-9447 | Gasket, Carburetor Flange | 1 | | | | | |
| 1 | 154A49 | Gasket, Carburetor Flange - 2 Used W/Spacer | 1 | 1 | 1 | 2 | 2 | 2 |
| 2 | 142-116 | Needle, Main Adjusting | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 142-85 | Needle, Idle Adjusting | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 142-67 | Screw, Throttle Body to Bowl | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 142-76 | Spring, Idle Needle | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 142-98 | Lockwasher, Body to Bowl | 4 | 4 | 4 | 4 | 4 | 4 |
| 7 | 142-77 | Spring, Main Adjusting Needle | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 142-99 | Washer, Main Adjusting Needle Steel | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 142-71 | Gasket, Main Adjusting Needle | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | | Body Assembly, Throttle (Not Sold Separately - Order New Carburetor) | 1 | 1 | 1 | 1 | 1 | 1 |
| 10A | 142-120 | Pin, Throttle Stop | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 142-62 | Screw, Throttle Fly | 2 | 2 | 2 | 2 | 2 | 2 |
| 12 | 142-65 | Screw, Idle Drilling Inspection Plug | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 142-100 | Lockwasher, Throttle Fly | 2 | 2 | 2 | 2 | 2 | 2 |
| 14 | 142-60 | Fly, Throttle | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | (FM)9N-9536 | Spring, Main Adjusting Ratchet | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 142-100 | Lockwasher, Ratchet Spring | 2 | 2 | 2 | 2 | 2 | 2 |
| 17 | 142-62 | Screw, Ratchet Spring | 2 | 2 | 2 | 2 | 2 | 2 |
| 18 | 24200 | Bracket, Float | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 24159 | Screw, Float Bracket Drive | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 | 142-59 | Shaft Assembly, Lever and Throttle | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 142-69 | Gasket, Throttle Body to Bowl | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 148A17 | Gasket, Float Valve Seat | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 142-75 | Spring, Throttle Stop | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 142-92 | Jet, Economizer | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 142-119 | Jet, Idle | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 142-106 | Valve, Float Seat and Gasket Assembly (Matched) | 1 | 1 | 1 | 1 | 1 | 1 |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|-------------|--|---|---|---|---|---|
| | | A | B | C | D | E | F |
| FIG. 10 - CARBURETOR PARTS GROUP (Cont.) | | | | | | | |
| 27 | 142-84 | Shaft, Float Lever | 1 | 1 | 1 | 1 | 1 |
| 28 | 142-117 | Venturi, Throat | 1 | 1 | 1 | 1 | 1 |
| 29 | 142-83 | Float and Lever Assembly | 1 | 1 | 1 | 1 | 1 |
| 30 | 142-90 | Nozzle | 1 | 1 | 1 | 1 | 1 |
| 31 | 142-70 | Gasket, Main Nozzle | 1 | 1 | 1 | 1 | 1 |
| 32 | 142-118 | Jet, Maximum Fuel Limiting | 1 | 1 | 1 | 1 | 1 |
| 33 | | Bowl Assembly (Not Sold Separately - Order New Carburetor) ... | 1 | 1 | 1 | 1 | 1 |
| 34 | 142-61 | Screw, Choke Fly | 2 | 2 | 2 | 2 | 2 |
| 35 | 142-100 | Lockwasher, Choke Fly | 2 | 2 | 2 | 2 | 2 |
| 36 | 142-102 | Strainer, Gasoline Drain Dust | 1 | 1 | 1 | 1 | 1 |
| 37 | 142-104 | Plug, Expansion (Retainer for Dust Strainer) | 1 | 1 | 1 | 1 | 1 |
| 38 | 142-103 | Plug, Bowl Drain | 1 | 1 | 1 | 1 | 1 |
| 39 | 24173 | Flapper, Choke Fly | 1 | 1 | 1 | 1 | 1 |
| 40 | 142-340 | Spring, Choke Fly Flapper | 1 | 1 | 1 | 1 | 1 |
| 41 | 142-113 | Swivel, Choke Lever | 1 | 1 | 1 | 1 | 1 |
| 42 | 142-66 | Screw, Choke Lever Swivel | 1 | 1 | 1 | 1 | 1 |
| 43 | 24174 | Fly, Choke | 1 | 1 | 1 | 1 | 1 |
| 44 | 142-112 | Fly Assembly, Choke | 1 | 1 | 1 | 1 | 1 |
| 45 | 24205 | Spring, Choke Return | 1 | 1 | 1 | 1 | 1 |
| 46 | 142-115 | Bracket, Choke | 1 | 1 | 1 | 1 | 1 |
| 47 | 516-59 | Key, Choke Lever Swivel | 1 | 1 | 1 | 1 | 1 |
| 48 | 142-82 | Bracket Assembly, Choke | 1 | 1 | 1 | 1 | 1 |
| 49 | 142-114 | Clip, Choke Bracket | 1 | 1 | 1 | 1 | 1 |
| 50 | 142-125 | Choke Lever and Shaft Assembly | 1 | 1 | 1 | 1 | 1 |
| 51 | 142-97 | Lockwasher | 1 | 1 | 1 | 1 | 1 |
| 52 | 142-63 | Screw, Choke Bracket | 1 | 1 | 1 | 1 | 1 |
| 53 | 142-110 | Gasket Kit, Carburetor | 1 | 1 | 1 | 1 | 1 |
| | 142-58 | Packing, Choke Shaft (Not Illustrated) | 1 | 1 | 1 | 1 | 1 |
| | 142-96 | Retainer, Choke Shaft Packing (Not Illustrated) | 1 | 1 | 1 | 1 | 1 |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | | DESCRIPTION | QUANTITY USED | | | | | |
|-----------------------------|---------------|--|-------------|---------------|---|---|---|---|---|
| | | | | A | B | C | D | E | F |
| FIG. 11 - AIR CLEANER GROUP | | | | | | | | | |
| 1 | (FM)ONA-18205 | Cleaner Assembly, Air (Used on units manufactured prior to Sept. 1, 1951) Use Cleaner #140C150 plus Bracket #140A255 ... | x | | | | | | |
| | | Cleaner Assembly, Air (Used begin W/Sept. 1, 1951) | 1 | 1 | | | 1 | 1 | 1 |
| 1 | 140C150 | Bracket, Air Cleaner (Replaces Bracket #140A153) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 140A255 | Strap, Air Cleaner Adapter Tube - Use Bracket #140A255 | x | x | x | | | | |
| 3 | 140A154 | Clamp, Air Cleaner to Carburetor Hose | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 4 | 503-11 | Tube, Air Cleaner Adapter (Replaces Tube #78078) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 140C148 | Hose, Air Cleaner to Carburetor | 1 | | | | | | |
| 6 | 503-3 | Hose, Air Cleaner to Carburetor | | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 503-88 | Hose, Air Cleaner to Carburetor | | | | | | | |
| FIG. 12 - MUFFLER GROUP | | | | | | | | | |
| | | Clamp, Exhaust Muffler Inlet Pipe (Replaces Clamp (FM)9N-5251. | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 155A20 | Clamp, Exhaust Muffler (Replaces Clamp #78096) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 155B405 | Elbow, Exhaust Adapter (Flanged) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 155B121 | Coupling, Exhaust Pipe | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 505-32 | Nipple, Exhaust Pipe | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 75742 | Elbow, Exhaust Pipe (90°) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 505-43 | Muffler, Exhaust | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 155B77 | | | | | | | | |
| FIG. 13 - IGNITION GROUP | | | | | | | | | |
| 1 | 78340 | *Wire, Ignition to No. 4 Plug (Shielded) | 1 | 1 | | | 1 | 1 | |
| 2 | 78338 | *Wire, Ignition to No. 3 Plug (Shielded) | 1 | 1 | | | 1 | 1 | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| | | QUANTITY USED | | | | | | |
|----------------------------------|----------|---|---|---|---|---|---|---|
| REF. NO. | PART NO. | DESCRIPTION | A | B | C | D | E | F |
| FIG. 13 - IGNITION GROUP (Cont.) | | | | | | | | |
| 3 | 78339 | *Wire, Ignition to No. 2 Plug (Shielded) | 1 | 1 | | | 1 | 1 |
| 4 | 78341 | *Wire, Ignition to No. 1 Plug (Shielded) | 1 | 1 | | | 1 | 1 |
| 5 | 167C26 | *Conduit, Ignition Wire | 1 | 1 | | | 1 | 1 |
| 6 | 167A1256 | *Wire Set, Ignition | 4 | | | | | 1 |
| 6 | 167A1276 | Wire Set, Ignition | 4 | 4 | 4 | 4 | 4 | 4 |
| 7 | 167A2 | Nut, Magneto Shield Outlet Nipple Knurled | 1 | | | | | |
| 8 | 162B233 | †Shield, Magneto | 1 | | | | | |
| 9 | 162A226 | †Magneto Assembly, Wico | 1 | 1 | 1 | 1 | | |
| 9A | 161-97 | §Magneto, Fairbanks Morse | | | | | 1 | 1 |
| 9A | 161A187 | Magneto, Fairbanks Morse | 1 | | | | | |
| 10 | 167A105 | ▲Cover, Spark Plug Shield Box | 1 | | | | | |
| 11 | 76487 | ▲Box, Spark Plug Shield | 4 | 4 | | 4 | 4 | 4 |
| 12 | 167A67 | *Shield, Spark Plug | 1 | | | | | |
| 13 | 167A1257 | ▲Cable, Spark Plug - No. 3 - Shielded | | | | | | 1 |
| 13 | 167A1182 | Cable, Spark Plug - No. 3 - Shielded | 1 | | | | | |
| 14 | 167A1258 | ▲Cable, Spark Plug - No. 2 - Shielded | | | | | | 1 |
| 14 | 167A1274 | Cable, Spark Plug - No. 2 - Shielded | 1 | | | | | |
| 15 | 167A1259 | ▲Cable, Spark Plug - No. 4 - Shielded | | | | | | 1 |
| 15 | 167A1275 | Cable, Spark Plug - No. 4 - Shielded | 1 | | | | | |
| 16 | 167A1260 | ▲Cable, Spark Plug - No. 1 - Shielded | | | | | | 1 |
| 16 | 167A1273 | Cable, Spark Plug - No. 1 - Shielded | 4 | 4 | | | | |
| 17 | 167-4 | Plug, Spark | | | | | 4 | |
| 17 | 167-28 | Plug, Spark | | | | | | 4 |
| 17 | 167-81 | Plug, Spark | 4 | | | | | |
| 18 | 314-6 | ▲Suppressor, Spark Plug | | 4 | | | | |
| 18 | 314-32 | Suppressor, Spark Plug | 1 | | | | | |
| 19 | 516-107 | †Pin, Magneto Drive and Driven Gear Retaining | 1 | | | | | |
| 20 | 160A181 | †Shaft, Magneto Drive | 2 | | | | | |
| 21 | 166A75 | †Gear, Magneto Drive and Driven | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|----------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 13 - IGNITION GROUP (Cont.) | | | | | | | | |
| 22 | 160A424 | Gasket, Magneto Gear Box | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 160B164 | †Gearcase Assembly, Magneto (See Illustration) This gearcase used on units built prior to approximately 7/2/43 (Use this assembly plus clamp #160A186) | 1 | | | | | |
| 24 | 160C179 | †Gearcase Assembly, Magneto (See Illustration) This gearcase used on units built after approximately 7/2/43 | 1 | | | | | |
| 25 | 161P191 | §Gearcase Assembly, Magneto Drive | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 336A903 | §Wire, Magneto to Cut-off Switch | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 103A52 | †Gasket, Magneto Gearcase Cover | 1 | | | | | |
| 28 | 160A180 | †Cover, Magneto Gearcase | 1 | | | | | |
| 29 | 520A185 | †Stud, Magneto Thrust Slotted | 1 | | | | | |
| 30 | 167-9 | Gasket, Spark Plug | 4 | 4 | | 4 | 4 | 4 |
| 31 | 167A42 | Adapter, Spark Plug | 4 | 4 | | 4 | 4 | 4 |
| 32 | 160A186 | †Clamp, Magneto Locking (Used on units built after approximately 7/2/43) | 1 | | | | | |
| | 167-19 | Grommet, Spark Plug Wires - Rubber (Not Illustrated) | | | | 4 | 4 | 4 |
| NOTES: SYMBOLS BELOW TO BE USED ONLY IF SELECTION IS BEING MADE FROM COLUMN "A". ALL OTHER COLUMNS TO IGNORE ANY SYMBOL. | | | | | | | | |
| * = Used only on units with the following Engine Serial Numbers: - 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142254 inclusive, 142256 to 142396 inclusive, 142398 to 142593 inclusive, 163107 and 163108. | | | | | | | | |
| † = Used only on units with the following Engine Serial Numbers: - 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142593 inclusive, 163107 to 164085 inclusive, 174116 to 174462 inclusive, and 182684 to 183476 inclusive. | | | | | | | | |

NOTES: SYMBOLS BELOW TO BE USED ONLY IF SELECTION IS BEING MADE FROM COLUMN "A". ALL OTHER COLUMNS TO IGNORE ANY SYMBOL.

* = Used only on units with the following Engine Serial Numbers: - 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142254 inclusive, 142256 to 142396 inclusive, 142398 to 142593 inclusive, 163107 and 163108.

† = Used only on units with the following Engine Serial Numbers: - 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142593 inclusive, 163107 to 164085 inclusive, 174116 to 174462 inclusive, and 182684 to 183476 inclusive.

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|-------------|---|---|---|---|---|---|
| | | A | B | C | D | E | F |
| FIG. 13 - IGNITION GROUP (Cont.) | | | | | | | |
| NOTES: (Cont.) | | | | | | | |
| § = Used only on units with the following Engine Serial Numbers: - 174663 to 175800 inclusive, and 187065 to 187760 inclusive. | | | | | | | |
| ▲ = Used only on units with the following Engine Serial Numbers: - 142255, 142397, 163109 to 164085 inclusive, 174116 to 174462 inclusive, 174663 to 175800 inclusive, 182684 to 183476 inclusive, and 187065 to 187760 inclusive. | | | | | | | |
| † = Used only on units with the following Engine Serial Numbers: - 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142254 inclusive, 142256 to 142396 inclusive, 142398 to 142593 inclusive, and 163107 to 163162 inclusive. | | | | | | | |
| FIG. 14 - WICO MAGNETO PARTS GROUP | | | | | | | |
| 1 | 162-107 | Cap, Distributor (New Style) Includes New Style Gasket (Replaces Old Style Cover) | 1 | | | | |
| 2 | 162-145 | Gasket, Distributor Cap (Obsolete) Use #162-107 Cap and Gasket. | x | | | | |
| 2A | 162-130 | Gasket, Distributor Cap | 1 | | | | |
| 3 | 162-108 | Arm, Distributor | 1 | | | | |
| 4 | (WCE)3795 | Felt, Breaker Cover Sealing (Obsolete- Not Required. No Longer Furnished) | x | | | | |
| 5 | (WCE)3796 | Cover, Breaker (Old Style) Obsolete (Use #162-107 Cap & Gasket) | x | | | | |
| 6 | 162-111 | Plate, Cam Screw Lock | 1 | | | | |
| 7 | 162-115 | Cam, Breaker | 2 | | | | |
| 8 | 162-125 | Washer, Inner Core Spacing - Felt | 1 | | | | |
| 9 | 162-100 | Key, Cam | 1 | | | | |
| 10 | 162-138 | Core, Inner | 1 | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|---|---------------|---|---|---|---|---|
| | | A | B | C | D | E | F |
| FIG. 14 - WICO MAGNETO PARTS GROUP (Cont.) | | | | | | | |
| 11 | 162-106 | 1 | | | | | |
| 12 | 162-116 | 1 | | | | | |
| 13 | 162-110 | 1 | | | | | |
| 14 | 162-114 | 1 | | | | | |
| 15 | 162-109 | 1 | | | | | |
| 16 | 162-105 | 2 | | | | | |
| 17 | 162-119 | 1 | | | | | |
| 18 | 162-129 | 2 | | | | | |
| 19 | 162-135 | 2 | | | | | |
| 20 | 162-127 | 2 | | | | | |
| 21 | 162-23 | 2 | | | | | |
| 22 | 162-136 | 2 | | | | | |
| 23 | 162-16 | 1 | | | | | |
| 24 | 162-18 | 1 | | | | | |
| 25 | 162-120 | 1 | | | | | |
| 26 | 162-118 | 1 | | | | | |
| 27 | 162-104 | 1 | | | | | |
| 28 | (WCE)X-3975 | 1 | | | | | |
| 29 | 162-121 | 1 | | | | | |
| 30 | 162-66 | 1 | | | | | |
| 31 | 162-117 | 2 | | | | | |
| 32 | 162-8 | 2 | | | | | |
| 33 | 162-126 | 2 | | | | | |
| 34 | 162-85 | 2 | | | | | |
| 35 | 162-103 | 1 | | | | | |
| 36 | 336A10 | 1 | | | | | |
| 37 | 162-122 | 1 | | | | | |
| 38 | 162-98 | 2 | | | | | |
| | Washer, End Plate Screw - Clamp (Special) | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|---|-------------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 15 - FAIRBANKS-MORSE MAGNETO PARTS GROUP | | | | | | | | |
| 1 | 814-77 | Screw, Bearing and Breaker Plate Flat Head | 4 | 4 | 4 | 4 | 4 | 4 |
| 2 | 850-25 | Washer, Lock (1) Condenser, (1) Stationary Bracket and (4) Distributor Block | 6 | 6 | 6 | 6 | 6 | 6 |
| 3 | 526-3 | Washer, Stationary Contact Support | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 812-76 | Screw, Round Head (1) Condenser Mounting, (1) Stationary Bracket and (1) Lead Wire Terminal | 3 | 3 | 3 | 3 | 3 | 3 |
| 5 | 161-60 | Rotor, Distributor | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 161-59 | Tube, Primary Lead Wire | 2 | 2 | 2 | 2 | 2 | 2 |
| 7 | 161-13 | Gasket, Ventilator Hood | 2 | 2 | 2 | 2 | 2 | 2 |
| 8 | 161-14 | Hood, Ventilator | 2 | 2 | 2 | 2 | 2 | 2 |
| 9 | 161-77 | Rivet, Hooded Ventilator Screen | 2 | 2 | 2 | 2 | 2 | 2 |
| 10 | 161-15 | Gasket, Ventilator Hood Rivet | 4 | 4 | 4 | 4 | 4 | 4 |
| 11 | (FBM)10S10A | Screw, End Cap Fillester Head | 7 | 7 | 7 | 7 | 7 | 7 |
| 12 | 161-8 | Screw, Fillester Head (3) End Cap Cover and (4) Distributor Block. Washer, End Cap Cover Lock | 3 | 3 | 3 | 3 | 3 | 3 |
| 13 | 161-126 | Washer, Distributor Shaft Flat | 2 | 2 | 2 | 2 | 2 | 2 |
| 14 | 161-55 | Bearing, Distributor Sleeve | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 161-73 | Gasket, End Cap to Frame Lead | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 161-42 | Ring, Distributor Shaft Snap | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 161-17 | Bearing, Rotor Shaft Sleeve | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 161-72 | Frame - Integral Flange | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 161-21 | Coil Assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 161-29 | Ring, Rotor Bearing Snap | 2 | 2 | 2 | 2 | 2 | 2 |
| 21 | 161-18 | Washer, Bearing Insulating | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 161-41 | Rod, Distributor High Tension Lead | 4 | 4 | 4 | 4 | 4 | 4 |
| 23 | 161-10 | Washer, End Cap Lock | 4 | 4 | 4 | 4 | 4 | 4 |
| 24 | 161-24 | Seal, Cable Socket Rubber | 4 | 4 | 4 | 4 | 4 | 4 |
| 25 | (FBM)B2473 | Nut, Cable Outlet | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 167A2 | Cover, End Cap | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 161-85 | | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | DESCRIPTION | QUANTITY USED | | | | | |
|---|-------------|---------------|---|---|---|---|---|
| | | A | B | C | D | E | F |
| FIG. 15 - FAIRBANKS-MORSE MAGNETO PARTS GROUP (Cont.) | | | | | | | |
| 28 | 815-85 | 2 | 2 | 2 | 2 | 2 | 2 |
| 29 | 161P182 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 161-6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 161-48 | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 161-38 | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 161-20 | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 161-39 | 1 | 1 | 1 | 1 | 1 | 1 |
| 35 | 161-35 | 1 | 1 | 1 | 1 | 1 | 1 |
| 36 | 161-22 | 3 | 3 | 3 | 3 | 3 | 3 |
| 37 | 161-31 | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | 161-19 | 2 | 2 | 2 | 2 | 2 | 2 |
| 39 | 161-96 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 161-89 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 161-90 | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 161-51 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | 161-129 | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | 161-84 | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 161-92 | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 161-95 | 1 | 1 | 1 | 1 | 1 | 1 |
| 46 | 161-91 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | 161-62 | 4 | 4 | 4 | 4 | 4 | 4 |
| 48 | 161-80 | 3 | 3 | 3 | 3 | 3 | 3 |
| 49 | 161-81 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 161-82 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 161-83 | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 161-34 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 | 161-70 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 | 161-140 | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | 161-86 | 1 | 1 | 1 | 1 | 1 | 1 |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|---|--------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 15 - FAIRBANKS-MORSE MAGNETO PARTS GROUP (Cont.) | | | | | | | | |
| 54 | 161-74 | Pinion, Rotor | 1 | 1 | 1 | 1 | 1 | 1 |
| 55 | 161A12 | Insulator, Ground Cable Terminal | 1 | 1 | 1 | 1 | 1 | 1 |
| 56 | 161A79 | Washer, Ground Terminal Insulating | 1 | 1 | 1 | 1 | 1 | 1 |
| 57 | 161A11 | Ferrule, Ground Cable | 1 | 1 | 1 | 1 | 1 | 1 |
| 58 | 161A64 | Terminal, Ground Cable | 1 | 1 | 1 | 1 | 1 | 1 |
| 59 | 161-65 | Terminal, Group | 1 | 1 | 1 | 1 | 1 | 1 |
| 60 | 161-43 | Strip, Ground Switch | 1 | 1 | 1 | 1 | 1 | 1 |
| 61 | 161-44 | Switch, Ground | 1 | 1 | 1 | 1 | 1 | 1 |
| | 161-16 | Guide, Ground Switch Strip (Not Illustrated) | 1 | 1 | 1 | 1 | 1 | 1 |
| 62 | 161-37 | Washer, Ground Screw Flat | 1 | 1 | 1 | 1 | 1 | 1 |
| 63 | 812-63 | Screw, Ground Terminal Round Head | 1 | 1 | 1 | 1 | 1 | 1 |
| 64 | 161-46 | Nut, Ground Terminal Screw | 1 | 1 | 1 | 1 | 1 | 1 |
| 65 | 161-47 | Washer, Ground Terminal Lock | 1 | 1 | 1 | 1 | 1 | 1 |
| 66 | 161-36 | Bushing, Primary Ground Insulating | 1 | 1 | 1 | 1 | 1 | 1 |
| 67 | 161-88 | Rotor, Magnetic | 2 | 2 | 2 | 2 | 2 | 2 |
| 68 | 161-56 | Shim, Thrust Bearing | 1 | 1 | 1 | 1 | 1 | 1 |
| 69 | 161-61 | Strip, Rotor Bearing Insulating | 1 | 1 | 1 | 1 | 1 | 1 |
| 70 | 161P71 | Bearing, Rotor Shaft Ball | 1 | 1 | 1 | 1 | 1 | 1 |
| 71 | 161A58 | Nut, Ground Cable Outlet | 1 | 1 | 1 | 1 | 1 | 1 |
| 72 | 161-76 | Rivet, Ventilator Screen | | | | | | |

FIG. 16 - GENERATOR PARTS GROUP

| | | | | | | | |
|---|----------|--|---|--|--|--|--|
| 1 | 221A4 | Poleshoe, Exciter | 4 | | | | |
| 2 | 222B57 | Coll, Exciter Field (Replaces Coll #75645B) | 4 | | | | |
| 3 | 222A1036 | Coil Assembly, Exciter -Complete Set (Replaces Coil Assembly #75645) | 1 | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | DESCRIPTION | QUANTITY USED | | | | | |
|---|---|---------------|---|---|---|---|---|
| | | A | B | C | D | E | F |
| FIG. 16 - GENERATOR PARTS GROUP (Cont.) | | | | | | | |
| 4, | 232A566 Shim, Generator Mounting (Has 2 holes drilled thru for mounting). | 2 | | | | | |
| | 232A567 Shim, Generator Mounting (Has 1 hole drilled thru for mounting) | 2 | | | | | |
| | Not Illustrated | 1 | | | | | |
| 5 | 232B55 Cover, Generator Bearing | 1 | | | | | |
| 6 | 232A57 Gasket, Generator Bearing Cover | 1 | | | | | |
| 7 | 211C11 Bell, Generator End | 1 | | | | | |
| 8 | 232B122 Band, Exciter End Bell | 1 | | | | | |
| 9 | 210C36 Frame, Exciter | 1 | | | | | |
| 10 | 75526C Frame, Generator | 1 | | | | | |
| 11 | 232B84 Plate, Generator Cover | 1 | | | | | |
| 12 | 75589 Stator Assembly, Wound (Does not include Generator Frame) | 1 | | | | | |
| 13 | 231D34 Adapter, Generator to Engine | 1 | | | | | |
| 13A | 75674 Baffle Ring | 1 | | | | | |
| 14 | 212A192 Rig Assembly, Brush (Includes Brushes and Springs) | 1 | | | | | |
| 15 | 232A58 Clip, Bearing Stop | 1 | | | | | |
| 16 | 510A2 Bearing, Generator | 1 | | | | | |
| 17 | 201A351 Rotor Assembly, Complete - W/Bearing (Replaces Assembly #75567) | 1 | | | | | |
| | Blower, Generator | 1 | | | | | |
| 18 | 205C44 Wire, Collector Brush Jumper | 1 | | | | | |
| 19 | 336A395 Spring, AC Brush | 4 | | | | | |
| 20 | 212A1004 Brush, AC | 4 | | | | | |
| 21 | 214A8 Spring, DC Brush | 4 | | | | | |
| 22 | 212A1011 Brush, DC | 4 | | | | | |
| 23 | 214A23 Wire, Ground Jumper Flexible | 2 | | | | | |
| 24 | 336A116 | | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. PART NO. NO. | | DESCRIPTION | QUANTITY USED | | | | | |
|-------------------------|---------|---|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 17 - CONTROL GROUP | | | | | | | | |
| 1 | 302-40 | Voltmeter, AC (0-150 Volts) Shielded | 1 | | | | | |
| 2 | 322A2 | Socket, Panel Lamp | 1 | | | | | |
| 3 | 308-2 | Switch, Panel Lamp Toggle | 1 | | | | | |
| 4 | 302-9 | ▲Ammeter, AC (0-75 Amps) Shielded | 1 | | | | | |
| 4 | 302-10 | †Ammeter, AC (0-80 Amps) Shielded | 1 | | | | | |
| 5 | 306A124 | Relay Assembly, Charge | 1 | | | | | |
| 6 | 193-9 | Resistor, Fuel Gauge | 1 | | | | | |
| 7 | 193-8 | Gauge, Water Temperature | 1 | | | | | |
| 8 | 302-58 | Ammeter, DC (10-0-10 Scale) | 1 | | | | | |
| 9 | 193K1 | Gauge, Fuel (Includes Gauge, Resistor, Gasket, Tank Unit Flange, Tank Unit Arm and Hardware) | 1 | | | | | |
| 10 | 193-3 | ▲Gauge, Oil | 1 | | | | | |
| 10 | 193-5 | †Gauge, Oil | 1 | | | | | |
| 11 | 304A4 | Bracket, Charge Resistor Mounting | 2 | | | | | |
| 12 | 304P53 | Resistor, Charge (3/4" x 6") Adjustable | 2 | | | | | |
| 13 | 323-109 | Receptacle, Trouble Lamp | 1 | | | | | |
| 14 | 320-23 | ▲Breaker, Overload Circuit | 1 | | | | | |
| 14 | 320-50 | †Breaker, Overload Circuit | 1 | | | | | |
| 15 | 304P2 | Resistor, Low Charge (3/4" x 4") Fixed | 1 | | | | | |
| 16 | 302-76 | ▲Transformer, Ammeter Current | 1 | | | | | |
| 16 | 302-77 | †Transformer, Ammeter Current | 1 | | | | | |
| 17 | 302A154 | Bracket, Current Transformer Mounting | 2 | | | | | |
| 18 | 302A87 | Panel, Ammeter & Current Transformer Mounting | 1 | | | | | |
| 19 | 305A1 | Regulator, Voltage | 1 | | | | | |
| 20 | 308A9 | Switch, Start-Stop | 1 | | | | | |
| 21 | 307B40 | Switch, Start Solenoid | 1 | | | | | |
| 22 | 332A477 | Post Assembly, Terminal (Negative) | 1 | | | | | |
| 23 | 332A476 | Post Assembly, Terminal (Positive) | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|----------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 17 - CONTROL GROUP (Cont.) | | | | | | | | |
| ▲ = Use only on units with the following Engine Serial Numbers: - 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142593 inclusive and 163107 to 164085 inclusive. | | | | | | | | |
| † = Use only on units with the following Engine Serial Numbers: - 174116 to 174462 inclusive, 174663 to 175800 inclusive, 182684 to 183476 inclusive and 187065 to 187760 inclusive. | | | | | | | | |
| FIG. 18 - CONTROL PANEL & WIRING GROUP | | | | | | | | |
| 1 | 301A980 | Plate, Instrument Panel Guard - Right Hand | 1 | | | | | |
| 2 | 78024 | Plate, Instrument Panel Guard - Left Hand | 1 | | | | | |
| 3 | 75777C | Panel, Instrument - W/Door | 1 | | | | | |
| 4 | 406-2 | Knob, Control Panel Door | 1 | | | | | |
| 5 | 334-7 | Wire, Remote Black (No. 14) 10 Feet Long | 1 | | | | | |
| 6 | 334-8 | Wire, Remote Black (No. 16) 10 Feet Long | 1 | | | | | |
| 7 | 334-14 | Wire, Rockbestos (No. 14) 10 Feet Long | 1 | | | | | |
| 8 | 334-11 | Wire, Rockbestos (No. 8) 10 Feet Long | 1 | | | | | |
| 9 | 336A168 | Wire, Motor (No. 6 Flexible) 10 Feet Long | 1 | | | | | |
| 10 | 226A4 | Wire, Starter Lead (No. 6 Flexible) 10 Feet Long | 1 | | | | | |
| 11 | 76595 | Wire, Black Remote (No. 12) 52" Long (DC Ammeter to Start Solenoid Switch) | 1 | | | | | |
| 12 | 76143 | Wire, Rockbestos (No. 14) 6" Long (Panel Light Switch to Panel Light) | 1 | | | | | |
| 13 | 76582 | Wire, Rockbestos (No. 14) 11" Long (Voltmeter to Panel Light).. | 1 | | | | | |
| 14 | 76142 | Wire, Rockbestos (No. 14) 6" Long (Voltmeter to Panel Light Switch) | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|--|----------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 18 - CONTROL PANEL & WIRING GROUP (Cont.) | | | | | | | | |
| 16 | 76593 | Wire, Black Remote (No. 16) 44" Long (Resistor to Start Solenoid Switch) | 1 | | | | | |
| 17 | 336A908 | Wire, Rockbestos (No. 14) 8-1/2" Long (Relay to DC Ammeter). | 1 | | | | | |
| 18 | 76585 | Wire, Rockbestos (No. 14) 12-3/4" Long (AC Voltmeter to Trouble Lamp) | 1 | | | | | |
| 19 | 336A909 | Wire, Rockbestos (No. 14) 15" Long (Charge Resistor to Fuel Gauge) | 1 | | | | | |
| 20 | 76586 | Wire, Rockbestos (No. 14) 11-3/4" Long (AC Voltmeter to Trouble Lamp) | 1 | | | | | |
| 21 | 76592B | Wire, Rockbestos (No. 8) 20-1/2" Long (Current Transformer to Circuit Breaker) | 1 | | | | | |
| 22 | 76141B | Wire, Rockbestos (No. 14) 10" Long (Trouble Lamp to Circuit Breaker) | 1 | | | | | |
| 23 | 76588 | Wire, Rockbestos (No. 14) 7" Long (Voltage Regulator to Low Charge Resistor) | 1 | | | | | |
| 24 | 76591B | Wire, Rockbestos (No. 14) 13" Long (Load Terminal to Trouble Lamp) | 1 | | | | | |
| 25 | 76596B | Wire, Rockbestos (No. 14) 10" Long (Resistor Connector) | 1 | | | | | |
| 26 | 76598 | Wire, Black Remote (No. 16) 24" Long (Fuel Tank to Fuel Gauge). | 1 | | | | | |
| 27 | 76590B | Wire, Rockbestos (No. 8) 7" Long (Circuit Breaker to Load Terminal) | 1 | | | | | |
| 28 | 76589B | Wire, Rockbestos (No. 14) 8-3/4" Long (Voltage Regulator to Charge Resistor) | 1 | | | | | |
| 29 | 76602 | Wire, Start-Stop Switch to Start Solenoid | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|-------------------------------|----------|---|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 19 - BATTERY GROUP | | | | | | | | |
| 1 | 416A4 | Cable, Battery Jumper | 1 | | | | | |
| 2 | 416P254 | Battery | 2 | | | | | |
| 3 | 416A21 | Cable, Battery Negative (20-1/2" Long) | 1 | | | | | |
| 4 | 416A14 | Cable, Battery Positive (15" Long) | 1 | | | | | |
| FIG. 20 - HOUSING PARTS GROUP | | | | | | | | |
| 1 | 331A20 | Bushing, Conduit - W/Locknut | 1 | | | | | |
| 2 | 405C851 | Panel, Rear End | 1 | | | | | |
| 3 | 78143 | Panel, Top Housing (Use this panel only on units with the following Engine Serial Numbers: - 69617 to 69823 inclusive, 85534 to 85537 inclusive, 141801 to 142254 inclusive, 142256 to 142396 inclusive, 142398 to 142593 inclusive, 163107 and 163108) | 1 | | | | | |
| 3 | 405C939 | Panel, Top Housing (Use this panel only on units with the following Engine Serial Numbers: - 142255, 142397, 163109 to 164085 inclusive, 174116 to 174462 inclusive, 174663 to 175800 inclusive, 182684 to 183476 inclusive and 187065 to 187760 inclusive) | 1 | | | | | |
| 4 | 405A378 | Nut, Inspection Cover | 1 | | | | | |
| 5 | 405B938 | Cover, Battery Inspection - W/Chain | 1 | | | | | |
| 6 | 405C850 | Panel, Front End | 1 | | | | | |
| 7 | 405B854 | Grille, Radiator Front Panel | 1 | | | | | |
| 8 | 405A35 | Cover, Bearing Inspection | 2 | | | | | |
| 9 | 405C852 | Panel, Housing Door | 1 | | | | | |
| 10 | 78142B | Panel, Side - Left Hand | 2 | | | | | |
| 11 | 75780 | Pipe, Housing Spacer (Extra Strong) 1-1/2" x 23" | 1 | | | | | |
| 12 | 78141B | Panel, Side - Right Hand | 1 | | | | | |
| 13 | 405A44 | Holder Assembly, Crank | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

| REF. NO. | PART NO. | DESCRIPTION | QUANTITY USED | | | | | |
|---|----------|--|---------------|---|---|---|---|---|
| | | | A | B | C | D | E | F |
| FIG. 20 - HOUSING PARTS GROUP (Cont.) | | | | | | | | |
| 14 | 406-3 | Fastener, Hood | 4 | | | | | |
| 15 | 75766 | Plate, Muffler Compartment Top | 1 | | | | | |
| 16 | 75767 | Support, Radiator | 1 | | | | | |
| 17 | 520A309 | Rod, Housing Tie | 2 | | | | | |
| 18 | 75776 | Plate, Bottom Dust | 1 | | | | | |
| 19 | 75739A | "D" Ring and Clip (For Canvas Cover) | 4 | | | | | |
| 20 | 78139 | Saddle, Fuel Tank Mounting | 2 | | | | | |
| 21 | 405A243 | Spring, Front Engine Mounting | 1 | | | | | |
| 22 | 78286 | Mounting, Front Engine | 1 | | | | | |
| 23 | 78074 | Support, Crank | 1 | | | | | |
| 24 | 416A340 | Rack, Battery Top | 1 | | | | | |
| 25 | 405C853 | Support, Battery and Fuel Tank | 1 | | | | | |
| 26 | 192-1 | Crank, Manual Starting | 1 | | | | | |
| FIG. 21 - SUPPRESSION PARTS (Not Illustrated) | | | | | | | | |
| NOTE: - Used only on units with the following Engine Serial Numbers: - 142255, 142397, 163109 to 164085 inclusive, 174116 to 174462 inclusive, 174663 to 175800 inclusive, 182684 to 183476 inclusive and 187065 to 187760 inclusive. | | | | | | | | |
| 153A69 | | Clip, Low Tension Lead - (2) Magneto to High Water Temperature Cut-off Switch, (4) Magneto Low Tension Stop Lead | 6 | | | | | |
| 6702 | | Strap, Bond (Radiator Core to Front End Panel) 4" x 3/4" | 2 | | | | | |
| 6704 | | Strap, Bond (Cylinder Head to Battery Shelf) 5" x 3/4" | 1 | | | | | |
| 74958B | | Bracket, Right Door Panel | 1 | | | | | |
| 74961 | | Clip, Spring (Right Skid) | 1 | | | | | |
| 74962 | | Bracket, Condenser Mounting | 1 | | | | | |
| 74963 | | Spacer, Skid Bond | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!

PARTS LIST

| REF. PART NO. NO. | DESCRIPTION | QUANTITY USED | | | | | |
|----------------------|--|---------------|---|---|---|---|---|
| | | A | B | C | D | E | F |
| | FIG. 21 - SUPPRESSION PARTS (Not Illustrated) (Cont.) | | | | | | |
| 312A16 | Condenser - .01 Mfd. - (2) AC Output Terminals, (2) Generator Collector Rings, (2) Positive Exciter Brush and (2) Convenience Receptacle | 8 | | | | | |
| 232A191 | Clamp, Generator Shaft (Condenser Terminal) | 1 | | | | | |

WHEN ORDERING PARTS BE SURE TO INCLUDE MODEL AND SERIAL NUMBER OF UNIT!